

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MAY 15, 1959

Serial Dept.
MAY 11 1959



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AMERICAN NURSERYMAN

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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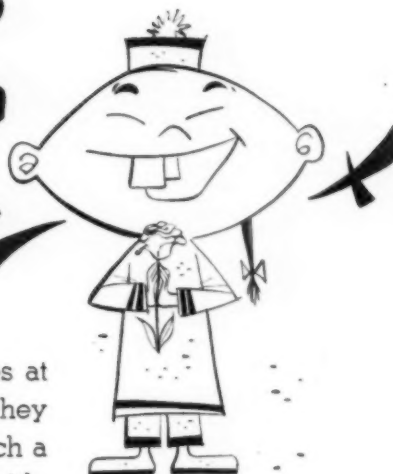
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Forms for the June 15 issue will close Friday, May 22.

Forms for the July 1 issue will close Friday, June 5.

Mail copy to arrive at Chicago by these dates—no later!

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It's an old Chinese custom growing velly fine roses at Howards of Hemet. And we swear by our ancestors (they were the swearing kind) that never have we had such a feast to spread before you. No. 1 and 1½ grade topside roses lookee velly cool. In this year of the Boar, be not one. Prostrate yourself before your customers with such worthy offerings as ANGEL WINGS, America's new exhibition rose, and GOVERNOR ROSELLINI . . . "all it needs is room to grow". Heat Wave, Sterling Silver, Ivory Fashion, new All-American Winners . . . precious as jade . . . difficult to obtain as silkworm's teeth. These alla same we have. Likewise plenty more patented and non-patented varieties.



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"Seasoned Rosebushes" for the wholesale trade exclusively.

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"Seasoned Rosebushes"
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AMERICAN NURSERYMAN

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Editorial

LANDSCAPE SALES

Although the past decade of record home building in this country has provided a top number of prospects, the primary problem of landscape firms today seems to be that of selling and sales. Of course, the majority of the new homes built in recent years have been in a price class which did not include much in the way of planting. More than that, most of the occupants became homeowners on comparatively short notice, without the years of preparation and reflection which accompany the production of a home gardener as well. Yet in almost every community a considerable number of homes have been and are being built in the high-priced brackets, and the grounds are spacious enough for ample landscape planting. Not all of these, however, have been as good prospects or clients for the landscape firms as could be desired.

The basis of the problem seems to be the education of these new homeowners, and old ones as well, in the values of home landscape planting for beauty, comfort, utility and intrinsic worth. That is the reason why landscape firms find new prospects often so hard to sell. Much effort or time is required to educate, much less stimulate, the prospects in the matter of home ground plantings and to develop their imaginations to the point where they will appreciate and patronize the landscape nurserymen's services.

More basic work in the matter of advance publicity, by advertising, circulars or letters, may be necessary before salesmen call. That results can be obtained when suitable attention is given to this phase of the problem is indicated by the widespread interest in industrial landscaping which followed the preparation and dissemination of booklets on the subject by national organizations in this industry several years ago. Making sales more easily and

of larger size conceivably would follow the broadening of the spade work done on the wider field of home planting prospects.

TOPIC FOR RESEARCH

Regular readers of this magazine are aware of the numerous avenues through which flow the benefits of research for nurserymen, some of it incidental and some of it direct. Universities, experiment stations, departments of agriculture, research institutes and other agencies contribute much to the solution of problems facing horticulture and agriculture in general and occasionally the nursery industry in particular. Chemical manufacturers, equipment makers, state nurseries and many other more commercial enterprises test products for their own gain, and some of these prove to be beneficial in this field also.

Problems relating to soil, disease control, insects and their control and many other phases of production are important on the list of research undertakings. Propagation techniques and procedures, growing methods and other phases of production also receive attention. Recently marketing surveys have been undertaken in this field by groups in state universities and by some departments of agriculture cooperating with the federal government. The list of undertakings in the research field increases as time goes on.

One topic of prime importance to commercial nurserymen has received only occasional and fragmentary notice. Attempts have been made by horticultural students and by nurserymen themselves to arrive at figures for costs of production of propagating materials and then of growing the propagated material, whatever the form, into salable plants. Of course, the problem is an extensive and varied one, according to the size and type of material, the species of plants involved, the soil and irrigation methods, the locality and climate, etc. All add to the diversity facing any investigators. The results, therefore, are limited in scope and in application.

Actual production costs will vary according to time, prices of materials, locality, stock involved and many other factors, but it would seem that a topic of thorough research might be the procedure involved, so that methods or standards might be set up by which a nurseryman could apply figures of his own

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to reach findings of importance to him. This is not a top for a graduate student's thesis or for a limited trial. It would require long and thorough investigation by those acquainted with the field as well as with the materials and problems involved. But as a long-range program it would be worth while and pay dividends to many who now grope their way or ignore costs entirely.

Perhaps some phases of the industry share the problem of general agriculture in facing the hazard of weather conditions and seasonal setbacks. The federal government does not seem to have fared well in ascertaining farm costs and in its handling of the farmers' problems has faced tremendous losses to the taxpayers, beside which the nurserymen's troubles may seem insignificant.

OREGON MARKET SURVEY

With the help of local nurserymen, a research firm of Portland, Ore., obtained figures from 505 families in the city's residential area and thickly populated areas adjacent with regard to their purchases of nursery stock, seeds, plants and bulbs, fertilizers and other garden supplies and hand and power tools, etc.

The total purchases averaged \$59 per family during the autumn of 1957 and the spring of 1958. Of the \$59, about \$9 represented trees and shrubs; \$10, seeds, plants and bulbs; \$18, fertilizers, peat moss, pesticides and supplies, and \$22, hand tools, power tools, sprayers, hose, etc.

About three fourths of the nursery stock was purchased from nurseries, and only a small per cent each from garden supply stores, supermarkets, florists and roadside stands. In sales of seeds, plants, bulbs and ground covers, nurseries supplied about one third and garden supply stores were close with nearly another third. Other outlets each supplied about 10 per cent.

Garden supply stores sold most of the fertilizers, etc., but the tools of various kinds were purchased mostly from hardware, department and specialty stores.

From this survey it would seem that the trade has little to fear in competition from other sales outlets as regards nursery stock and other plant materials, but garden supply stores have room for much expansion in respect to sales of supplies and equipment.

Rutgers Hosts Holly Society Meeting

Discussions on Industry Trends and Causes of Winter Injury Highlight Program

By Harry William Dengler

Two days of varied rainy and cloudy weather failed to dampen either the interest or enthusiasm of members of Holly Society of America, Inc., at their 26th meeting, held April 9 and 10 at Rutgers University, New Brunswick, N. J. Headquarters for the affair was the horticulture farm and the Lester Collins auditorium in Blake Hall, the university's new horticulture building. Approximately 140 members from as far away as Alabama and Ohio were in attendance at the sessions. President Dr. C. R. Wolf, New Jersey Silica Sand Co., Millville, N. J., presided throughout the various activities, while Dr. William E. Snyder, professor, department of ornamental horticulture, served as host for Rutgers.

The meeting got under way with registration Thursday afternoon, April 9, at the log cabin on Rutgers' horticulture farm No. 1 near New Brunswick. Here the members were divided into groups and taken on a tour of current holly research work at the university.

View Test Plantings

Members had an unexcelled opportunity of observing how nearly 200 varieties of American hollies withstood the past two winters, which were notably unfavorable to broad-leaved evergreens. Also seen were 20 selections of English hollies, a number of Japanese varieties and Oriental species plus some deciduous



Research committee members appraise results and plan future projects at the April, 1959, meeting of Holly Society of America, Inc., at Rutgers University: Left to right, Dr. Charles W. Dunham, University of Delaware, Newark, Del.; R. Templeton Smith, Smiths Point Farm, Pittsburgh, Pa.; Mrs. Claire Livingston, committee secretary, Sassafra Farm, Cecilton, Md.; Dr. Ralph L. Dodge, committee chairman, Sassafra Farm, and Richard Wyman, Wyman's Framingham Nurseries, Inc., Framingham, Mass.

hollies, both native and of foreign origin.

These were growing under typical eastern United States orchard conditions, as woodland garden plants or as part of a landscape scene in full sunlight. Three hedges of three varieties of American holly gave a good indication of the value of these plants for this use. Bosley's Hedgeholly, which presented a uniform show of berries despite tight pruning, indicated the plant was aptly named.

Greenhouse experiments conducted by the staff at Rutgers related to methods of holly seed treatment to provide more uniform rates of

germination and to hasten the process, oxygen requirements of hollies and hybridizing American hollies to develop superior and hardier landscape and orchard plants. All these will be reported fully when the work is completed. An unusual plant on display was a male Chinese holly bearing a crop of berries. The afternoon ended with an enjoyable period of socializing and visiting at the cabin, in the greenhouse and around the orchards and plantings at the horticulture farm.

In the evening the group assembled at the nearby Edgebrook res-

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Program speakers at the recent meeting of Holly Society of America, Inc., at Rutgers University, New Brunswick, N. J.: Left to right, Prof. Wallace A. Mitcheltrec, Rutgers; Prof. Richard Barrett, Rutgers; Philip Alampi, secretary, New Jersey department of agriculture, Trenton; Daniel Fenton, New Jersey Silica Sand Co., Millville, N. J.; Dr. William E. Snyder, Rutgers; Dr. Clyde C. Hamilton, Rutgers, and Prof. Harry William Dengler, University of Maryland, College Park, Md.

New Sprays Cut Threat Of Black Spot on Roses

By Dr. E. W. Lyle

Plant Pathologist, Texas Rose Research Foundation, Inc., Tyler, Tex.

Black spot disease of rosebushes, with the resulting defoliation, often has been a serious handicap in the field and garden growing of roses. This disease has been specially bad in areas which have had rain periods distributed throughout the growing season, and particularly during years when the rainfall has been 20 or 25 inches or more. Wet weather during warm summer months brings a rapid spread of the disease, and that is what occurred in east Texas in 1958.

Experiments in recent years by Texas Rose Research Foundation, Inc., at Tyler, Tex., have shown the superiority of spray compounds over dust-type fungicides for control of black spot. Because of their exceptional behavior, maneb, Phaltan and captan sprays have gained increased favor among the rose growers. The results have been so good that it is entirely possible that black spot soon may become a secondary problem in the commercial propagation of rosebushes.

In the experiments reported here, the rose variety Floradora was used because of its natural susceptibility to black spot. The appearance of the disease in the field growing of roses generally is made later than in the garden growing of established bushes; so, it was not until July 10 that black spot first was noticed in the test area. It was found then in some of the untreated plots. A great rapidity of spread was noted, and the same plots showed much evidence of foliage infection only two weeks later.

Tabular Data

The spread increased in the check plots until near the end of the season, when, on October 11, there was an average of 91 per cent diseased leaves estimated for the check plants. In the same block of roses the bushes given the most effective spray treatments had an average of less than 5 per cent foliage infection on that same date. The data on percentages estimated for black-spotted leaflets are given in the accompanying table. More information also is obtained in the same table from the weights of bushes at digging time, on December 2.

The treatments recorded were be-

gun June 18 after about seven applications of sulphur-copper (90 per cent : 10 per cent) rose dust fungicide had been made over the entire field. Plot applications were made weekly until August 6 for eight applications; then they were made bi-weekly until October 14 for the last four times. The dates were June 18 and 25; July 2, 10, 17, 24 and 31; August 6 and 19; September 2, 16 and 30, and October 14.

The sprays were applied at about 200 pounds' pressure with a 1-row tractor sprayer, four nozzles for the row. Two nozzles were on each side of the row and were the TeeJet D-3 cone type. The lower two nozzles were carried about four inches above the ground and directed upward, but so that the bottom part of the cone of spray reached the base of the bushes. The upper two nozzles were 18 inches above the others, and the direction of spray from these was changed to upward as the bushes grew in height. No spray was directed downward intentionally since previous tests had showed that enough fungicide settled on the upper side of the leaves to give protection there.

The rate of spraying for each ap-

plication was about 120 gallons per acre. This was considered about a minimum quantity. That amount probably was more important to the satisfactory field methods of fungicide application than the pressure utilized to obtain the coverage.

Dust Burning Negligible

The dust fungicide was put on with a Niagara rotary hand duster at a rate of about 25 pounds per acre each time. The season was such that burn from the dust was absent or negligible. There was not one day when the official temperature exceeded 98 degrees, thus limiting the potential damage from the sulphur-type dust fungicide.

Plots were three rows wide and 40 feet long (0.0119 acres) and were in randomized order of replication. A total of 5,320 bushes was weighed at the close of the season when the bushes were dug on December 2, with an average of 95 bushes weighed per plot. Not counted were the bushes of the same variety making up the guard rows between the plots and also the bushes in close proximity to the stakes marking the separation of the plots.

The practices of field culture, cultivation, hoeing and pruning were uniform over the area. Also, there was only one application of fertilizer, and it was made in early spring before the plots were arranged.

In general, the results from the fungicides were that the sprayings with maneb, Phaltan and captan were far more effective for black

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EFFECT OF CONTROL OF BLACK SPOT DISEASE ON FLORADORA ROSE

Treatments (Floradora Rose) in order of weights of bushes and rates of fungicides to 100 gallons.	December 2		Black Spot
	Lbs. per 10 Bushes*	Increase over checks	
Manzate spray with spreader sticker (1.5 lbs. plus 2 oz. Triton B-1956)	14.47	83	2
Manzate plus Phaltan spray (0.5 Normal) with Sp. St. (0.75 lbs. to 1.0 lbs. plus 2 oz. Triton B-1956)	13.39	69	7
Manzate plus Phaltan spray (Normal) with Sp. St. (1.5 lbs. to 2.0 lbs. plus 2 oz. Triton B-1956)	13.38	69	2
Dithane M-22 spray with Sp. St. (1.5 lbs. plus 2 oz. Triton B-1956)	12.99	64	1
Manzate plus Thylate spray with Sp. St. (1.5 lbs. to 2 lbs. plus 2 oz. Triton B-1956)	12.79	62	1
Phaltan spray with Sp. St. (2.0 lbs. plus 0.5 pt. Ortho spray sticker)	12.52	58	2
Phaltan spray, no extra Sp. St. (2.0 lbs.)	12.39	57	19
Captan spray with Sp. St. (2.0 lbs. plus 0.5 pt. Ortho spray sticker)	12.39	57	6
Manzate spray with spreader only (1.5 lbs. plus 0.5 pt. Santomere spreader)	11.82	49	2
Captan spray, no extra Sp. St. (2.0 lbs.)	10.61	34	35
Solcopper D spray with Sp. St. (2.0 lbs. plus 2 oz. Triton B-1956)	10.34	31	11
Sulphur-Copper (90%:10%) rose dust	10.32	30	31
Antibiotic U-9547 with Sp. St. (1.0 lbs. plus 2 oz. Triton B-1956)	9.60	21	21
Check (No fungicide after June 11)	7.91	..	91

*The standard deviation for significance .05 point is 0.90 lbs.



Illustration A—Well-formed old specimens of *Sciadopitys verticillata* are not numerous in the United States.



Illustration B—*Abies nordmanniana* is one of the best firs because of its excellent rich green foliage.



Illustration C—The soft-foliaged *Chamaecyparis pisifera squarrosa* can reach a height of 50 feet.

Tips for Better Landscapes

Pyramid Trees with Varied Effects

By Clarence E. Lewis

It is often interesting to compare plants that have the same form, even though their eventual heights may differ considerably. The textures, the colors and their tones, the densities and the structures of these plants can vary so much that the reactions of viewers will be quite different.

For instance, Nordmann fir (*Abies nordmanniana*), *Sciadopitys verticillata* (umbrella pine) and the moss falsecypress (*Chamaecyparis pisifera squarrosa*) are similar in outline, as may be seen in illustrations A, B and C. The structure and foliage differences, however, are striking, as well as those of texture and color. The question arises as to when one would be used in preference to the others.

The umbrella pine is a better conversation plant than either of the other two. It is likely to interest the lady of the house to a greater degree, too, because the unusual foliage lends itself to decorative use in the interior of the home. The cut branches make interesting arrangements, either alone or in combination with the foliage and flowers of other plants.

The foliage combines well with chrysanthemums. Pleasing combinations can also be made with the bronzed leaves of Japanese piers (*Pieris japonica*); with the foliage

of carolina and catawba rhododendrons and of Chinese, Burford and English hollies, and with the cones of such pines as Japanese white pine (*Pinus parviflora*), pitch pine (*Pinus rigida*) and Austrian pine (*Pinus nigra*).

There is an impression of resistance offered by the Nordmann fir because of its stiffer branches and straighter needles, while the other two trees are less likely to be thought of as barriers. The moss falsecypress, with its much finer

texture and gray-green color, suggests a softness, while the umbrella pine's tendency toward stiffness is overshadowed by the striking novelty of its foliage, which leads one to examine it in detail.

Leaves Borne in Whorls

The generic name *sciadopitys* is derived from the Greek words *skias*, or *skiados* (meaning umbrella), and *pitys* (pine). The species name, *verticillata*, indicates that there is some part of the plant arranged in a whorl, and there certainly is. The leaves make a complete whorl around the young branches in numbers of as many as 30 and as few as 20.

The thick, leathery, narrow, strap-shaped leaves are from three to four inches long. There are other small scale-like leaves that usually go unnoticed. The long leaves have a groove in the middle of the upper surface and a much more pronounced groove in the light green undersurface. The leaves first appear bright green but eventually become almost a black green.

At one time, under the old Japanese regime, this was considered one of the seven famous trees, and it was a capital offense to destroy any of them. This slow-growing conifer is indigenous to the mountains of cen-

[Continued on page 39]



Illustration D—The bark of the moss falsecypress is rugged and has an orangey coloration.



Left: Well-planned remodeling has given Trick's Nursery & Florist, Santa Maria, Calif., this trim, modern exterior and has tripled interior store space. Right: Display and lath areas are reached directly from the rear entrance of the garden shop.

California Garden Centers Go Modern

By Richard B. Kilner

TRICK'S REMODELS

Burt Trick, owner of Trick's Nursery & Florist, Santa Maria, Calif., says that if there were one piece of advice above all others that he would give to his fellow nurserymen who are contemplating the building or rebuilding of a nursery, it would be to obtain the services of someone qualified in the planning and designing of such a layout. He is happy that he decided to have Ernest Wertheim, San Francisco, plan the remodeling of his small nursery.

Mr. Trick points out that, having been in the nursery business for a number of years, he thought he knew what he wanted when he decided to erect a new, more modern nursery. However, he says, he was evidently too close to the problem.

For instance, he visualized the

building as running parallel to the street, with the parking area between it and the street, as in the old nursery. However, this would have involved the cars' having to back out onto what is now becoming a busy thoroughfare. He contemplated a rustic redwood store; however, this did not take into account the fire ordinances of the zone in which the nursery is located. The story was repeated in planning many other phases of the operation. Mr. Trick says he finally turned the planning over to Mr. Wertheim once the basic problems and objectives had been resolved and determined.

Benefits of Planning

Innumerable benefits have resulted. For instance, while the nursery is located on the same half-acre site

as before, there is now parking space for 12 cars instead of six, and they do not have to back onto the busy thoroughfare. The store space has been tripled, and yet no other phase of the operation has suffered as a consequence.

A basic consideration in the planning was the traffic flow. To go into the nursery, a customer must enter in the front of the garden store. While the old nursery carried almost no supply products, the new, modern garden shop has sections for all the usual accessory items, such as plant foods, garden supplies, seeds and potted plants, as well as a selection of five or six power lawn mowers.

Adjoining the gift department is a small florists' section. A partition behind the florists' area separates

[Continued on page 84]



Left: The entire lath area, visible from Trick's store through large glass doors, is paved with blacktop. Carts are used to transport plants for customers. Right: A large concrete block planter borders the approach to the garden shop's street entrance.



The striking modern sign of the Deigaard Nursery & Garden Shop, Monrovia, Calif. (left), rises above a landscaped setting featuring a waterfall. Right: Space between the garden store and the sidewalk is used for displays of bedding plants.

DEIGAARD NURSERY SHOP

A place for everything and everything in its place . . . is an overworked phrase, to be sure; however, it best describes the new Deigaard Nurseries' garden shop at Monrovia, Calif. It is hard to believe that such a varied and complete array of nursery stock and accessory items can be contained and effectively displayed on property that is well under an acre in size.

Deigaard's features the garden center approach and then some. Everything is departmentalized. In the modern, spacious-appearing garden store are all the usual accessory items, with small sections for paints and paint supplies, pet foods, plumbing and electrical supplies and a selection of gift items. Under one of the many, ample, sheltered areas outdoors is a section for garden furniture and patio supplies. Thus, Deigaard's attempts to make this the homeowners' headquarters for all gardening and outdoor living needs.

The principal structures are the

garden store near the front of the property and the wholesale and retail offices paralleling it at the rear of the property. These two buildings support a huge Saran covering that forms the outdoor shade plant section. This functional area creates a pleasing spacious effect.

Exterior Displays

On both sides and all along the front of the streamlined, low garden store structure are large shelter areas effectively used for displays of fertilizer and bulk products on one side, garden furniture and equipment on the other and nursery stock along the front. Along the front of the property, seen by individuals in passing cars and by all pedestrian traffic, are display tables of colorful bedding plants in bloom.

A feature of Deigaard's is the unusual sign area. Beneath the modernistic signs and in front of an angular section of the building is a low, landscaped area, in the middle of which is a hanging rock waterfall,

spotlighted at night. The hanging rock was the subject of a contest at the grand opening of the garden shop Friday evening, April 3. Those guessing closest to the approximately 400-pound weight of the rock were rewarded with nursery supply prizes.

The latest conceptions of design and display are in evidence throughout the nursery. All ground areas and walks are either paved or black-topped. All stock is marked and tagged with its botanical name, common name and price, as inducement to self-service. There is perimeter parking for 50 cars, which can drive right up next to the fertilizer displays for easy loading. A wide variety of nursery stock can be displayed because the firm's growing grounds are only a few minutes' drive away.

Danish Founder

The nursery was founded by the late Louis Deigaard, who was born in Denmark and learned the nursery business from his father before com-

[Concluded on page 32]



Left: Saran plastic, supported on a steel pole framework, covers the shade plant display area at the rear of the Deigaard garden shop. Right: Bulky supplies are displayed at the edge of the parking lot for convenient loading in customers' cars.

Fertilization Studies with Container-Grown Nursery Stock

By James D. Kelley

Department of Horticulture, University of Kentucky, Lexington, Ky.

During the past few years interest in nursery stock in containers has increased considerably, especially in the eastern part of the United States. The volume of nursery stock being grown in containers is now at an all-time high, and indications are that this method of production will continue to increase. This increase will be more rapid and less hazardous when more is known about soil mixes, fertilizing and marketing container stock. A knowledge of the plants that can be most economically grown in containers is also needed.

The entire nursery industry is aware of this type of production, but many nurserymen are reluctant to adopt container growing as a part of their present-day production

The investigation reported in this paper is in connection with a project of the Kentucky agricultural experiment station and is published by permission of the director.

practices. This situation can be partly attributed to lack of information on methods and costs of producing and marketing top-quality container-grown plants.

Advantages of Container Growing

Container-grown stock has numerous advantages for the grower, the garden store operator and the consumer. The nurseryman benefits by being able to produce a given-size plant in a shorter time and usually at a lower cost. The fact that container growing can be partially mechanized is one reason for reduced cost. Nutrition, water and shade can be provided according to the requirements of each type of stock grown. Generally, the result is a plant superior to those resulting from field production.

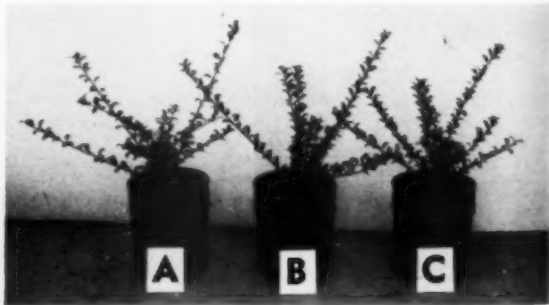
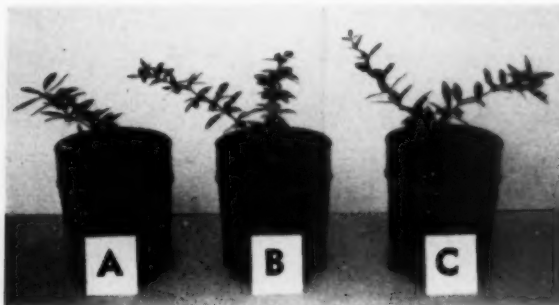
No longer is it necessary to field plants and be at the mercy of the weather as well as unfavorable soil conditions, with a resulting high

plant mortality rate. Soil pest troubles are lessened because all growing media can be sterilized or fumigated before use. Since balling and burlapping are eliminated, stock can be moved almost any month and without delay caused by weather conditions.

The retailers of nursery stock also benefit by buying and selling container-grown ornamental plants. The retail outlet can sell container stock throughout the growing season. Thus, retail sales are not limited to a short time in early spring and late fall. Selling container-grown stock is also easier. Plants in cans are generally lighter in weight than a balled and burlapped plant of equal size. Container stock lends itself to arrangement in attractive displays in the garden center and to rearrangement for maximum sales appeal. If canned stock is not sold immediately, it may be kept in prime condition for a number of



Pyracantha coccinea lalandi after growing one season in cans and receiving three fertilizer treatments: (A) A water soluble fertilizer (20-20-20) every three weeks throughout the growing season, (B) ammonium nitrate every three weeks throughout the growing season and potassium frit added to soil mix and (C) all fertilizer added to soil mix at time of planting except one heaping teaspoonful of urea-formaldehyde nitrogen per gallon container on July 18, 1958.



Berberis julianae, left, and *Ilex crenata convexa*, right, after growing one season in cans and receiving three fertilizer treatments: (A) A water soluble fertilizer (20-20-20) every three weeks throughout the growing season, (B) ammonium nitrate every three weeks throughout the growing season and potassium frit added to soil mix and (C) all fertilizer added to soil mix at time of planting except one heaping teaspoonful of urea-formaldehyde nitrogen per gallon container on July 18, 1958.

TABLE 1. GROWTH OF THREE WOODY PLANTS UNDER THREE FERTILIZATION PROGRAMS AFTER ONE YEAR IN METAL CANS.*

	Pyracantha Coccinea Lalandi Fertilization Program**			Ilex Crenata Convexa Fertilization Program			Berberis Julianae Fertilization Program		
	A	B	C	A	B	C	A	B	C
Full sun									
Average total growth per plant (in inches) ..	76.3	73.7	75.7	56.6	67.1	53.6	6.2	8.5	7.8
Average growth per lateral (in inches)	21.0	18.9	20.2	4.9	5.3	5.1	3.9	4.6	4.5
Average number of laterals per plant	3.7	4.0	3.8	11.6	12.8	10.9	1.6	1.9	1.8
Shade (One-third)									
Average total growth per plant (in inches) ..	79.6	86.5	82.5	64.6	61.9	58.6	11.4	13.8	12.5
Average growth per lateral (in inches)	23.2	21.0	22.0	5.3	4.8	5.3	4.5	5.3	4.7
Average number of laterals per plant	3.7	4.2	3.8	12.1	12.9	11.1	2.6	2.6	2.7

*All plants were grown in a basic soil mix of 60 per cent soil, 20 per cent sand, 20 per cent acid peat and six pounds of 20 per cent superphosphate per cubic yard of soil mix.

**Treatment A. A complete water-soluble fertilizer (six pounds of a 20-20-20 to 100 gallons water) applied every three weeks throughout the growing season.

Treatment B. Ammonium nitrate (3.6 pounds to 100 gallons water) every three weeks throughout the growing season. Potassium added to soil mix as potassium frit (35 per cent K_2O) at planting time at rate of three pounds per cubic yard of soil mix.

Treatment C. Basic soil mix plus four pounds of urea-formaldehyde nitrogen (38 per cent nitrogen) and three pounds of potassium frit per cubic yard of soil mix.

No additional fertilizer applied during the growing season, except one heaping teaspoonful of urea-formaldehyde per gallon container on July 18, 1958.

weeks or even until the next planting season.

Since the planting season is extended into summer, many plants can be sold when they are most attractive from the standpoint of flowers, fruit or foliage color. Few people are interested in pyracantha until fall when they see it covered with brilliant red or orange berries; again, few people would want Euonymus alatus except for its scarlet autumn color. The nursery industry has a product of interest to everyone, but in order to increase sales, outstanding features of the products sold should be used as an aid to marketing.

The consumer also must be educated to the advantages for him in buying container-grown stock. Plants can be purchased in smaller sizes, thus enabling the new homeowner to purchase good plants in the quantity necessary for good landscaping. Planting is easier and

TABLE 2. GROWTH OF ONE BROAD-LEAVED EVERGREEN AND TWO NARROW-LEAVED EVERGREENS AFTER ONE YEAR IN METAL CANS, USING A COMPLETE WATER-SOLUBLE FERTILIZER VS. SLOWING AVAILABLE FORMS OF NITROGEN, PHOSPHORUS AND POTASSIUM.*

	Prunus laurocerasus schipkaensis		Pinus sylvestris		Taxus cuspidata capitata	
	D**	E***	D	E	D	E
Average total growth per plant (in inches)	16.4	17.2	...	...	18.8	15.5
Average growth per lateral (in inches)	4.8	4.3	3.7	3.7	2.4	1.9
Average number of laterals per plant	3.5	4.0	2.8	3.9	7.7	7.8
Average height (in inches) .....	...	...	11.8	11.3	...	...

*All plants were grown in a basic soil mix of 50 per cent soil and 50 per cent fine ground Styrofoam, containing six pounds 20 per cent superphosphate per cubic yard of soil mix.

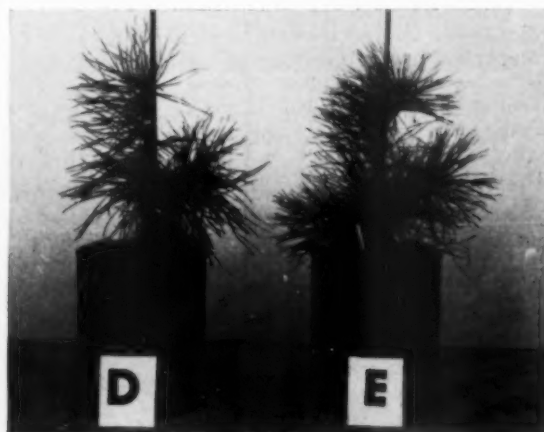
**Treatment D. A complete water-soluble fertilizer (six pounds of a 20-20-20 to 100 gallons of water) applied every three weeks throughout the growing season.

***Treatment E. Basic soil mix plus four pounds of urea-formaldehyde nitrogen (38 per cent nitrogen) and three pounds of potassium frit (35 per cent K_2O) per cubic yard of soil mix. No additional fertilizer applied during the growing season, except one heaping teaspoonful of urea-formaldehyde nitrogen per gallon container on July 18, 1958.

losses are generally fewer. Many mass marketing outlets are already taking advantage of the demand for smaller plants and are selling them in many cases at a price consider-

ably above the price of the same quality plant at local nurseries in the same area.

Producers of container stock are [Continued on page 79]



Prunus laurocerasus schipkaensis, left, and Pinus sylvestris, right, after growing one year in cans and receiving two fertilizer treatments: (D) A water soluble fertilizer (20-20-20) every three weeks throughout the growing season and (E) urea-formaldehyde, superphosphate and potassium frit added to the soil mix at planting time and one heaping teaspoonful of urea-formaldehyde nitrogen per gallon container on July 18, 1958.

Attendance Mark Set At Oakland Garden Show

By Grace K. Anderson

With the theme "Northern Lights and Southern Shadows," this year's spring garden and home show at Oakland, Calif., April 18 to 26 drew a record attendance. In the Exhibition building of the Oakland civic center the showgoers viewed a spectacular panorama planned by Howard Gilkey, designer, to fuse the widely separated cultures of America's two new states, Alaska and Hawaii. The scented tropical atmosphere of the exotic Pacific islands were represented in the eastern half of the building with landscaping depicting an Hawaiian palace garden, banked with tropical vegetation. The opposite end of the huge building held a lofty waterfall honoring Alaska.

Spectators entering the hall from the north side of the building heard the "Waterfall Symphony," stereophonic organ music projected through a plunging cataract by means of an amplification system.

Behind the curtain of water formed by the waterfall were visible the vivid hues of a huge mural painting, "The Gods of Valhalla," executed by designer Howard Gilkey. Rhododendrons in profusion were displayed near the falls by the northern California branch of the American Rhododendron Society.

Displays Frame Falls

Framing the falls was the exhibit of the California Nursery Co., Niles, with an exceptionally complete collection of choice conifers on its moss-covered banks. Among them were blue spruce, bald cypress, deodar cedars and pines. All were living trees, either balled or boxed. Third prize for horticultural merit was won by this entry.

Directly in front of the falls and separated only by a raised promenade deck, was a huge lagoon. Masses of rhododendrons and azaleas from Gomes & Son, Oakland, surrounded the water, on which was floating a sculptured swan boat, heaped with flowers. Among the rhododendrons were Vulcan, Sappho, Jean Marie Montague, Lady Longman, Mrs. Lindsay Smith, Purple Splendor, Dexter, Lady Primrose, Loderi, Day Dream, Everestianum, Album Elegans, Bonnett,

Harvest Moon, Butterfly, Mrs. Agnew, Blue Peter, Blue Ensign, Pink Jan Dekens, Dr. Endtz, Betty Wormold, Marchioness of Lansdowne, Rainbow, Azor and Alice. Azaleas included Susan Lana—a new introduction—Ina Claire and Miss Muffett. First prize for horticultural merit went to this display, as did the Bestor Robinson cup.

Spectators walking down the ramp from the falls were greeted with an exhibit honoring the statehood of Alaska. A giant totem pole, sculptured by Howard Gilkey, was set in a tree-banked, mossy spot with hydrangeas and cinerarias, ferns and a pebbled path. The display was designed by Korematsu & Nomura, Allied Designers, Oakland, Alameda and Hayward.

The Sunset Nursery Co., Oakland, featured outdoor living in its entry with a raised patio made of redwood blocks filled in between with small, smooth river pebbles. This area had maple trees at the four corners and azaleas and hydrangeas for color. Garden furniture completed the exhibit, which placed first for plant composition and received the directors' cup. Ira McKenzie, landscape architect, Oakland, was the designer.

Pink and red formed the color scheme chosen by the East Bay Nursery, Berkeley, carried out with rhododendrons surrounding a pool, cibotium ferns also being used in profusion.

Flowerland Nursery, Albany, featured a simulated hillside on which rhododendrons were displayed. Ferns and astilbes added interest.

At the east end of the 4-acre Exposition building the scene changed to the lush flora of the tropical Pacific. This area was dominated by a large palm-thatched hut on which a torrential tropical rain descended, while at intervals the skies darkened, then blazed with lightning, while booming thunder of a typical south Pacific storm was heard.

Directly in front of the hut was the exhibit made by Lyal Nickals, San Leandro, with cibotium ferns, Philodendron Evansi, croton plants and other tropical items set around a pool. Strelitzia anthurium and phalaenopsis supplied color. This display won the second prize for horticultural merit.

There were always crowds around the orchid exhibits. McLellan's Acres of Orchids; Carbone's, Berkeley; Wilson's Orchids, San Leandro, and the Orchid Society of California brought to the show hundreds of blooms so that visitors might become better acquainted with the many varieties represented. Walk-up's Landscape Nursery, Berkeley, used tropical foliage as a background for a display of cymbidiums.

The first large-scale indoor showing of modern hybrid roses at the

[Continued on page 96]



Modern hybrid roses being featured by the Jackson & Perkins Co., Newark, N. Y., made this garden setting entered by the firm's western subsidiary, Jackson & Perkins Co., of California, at the recent Oakland garden and home show.



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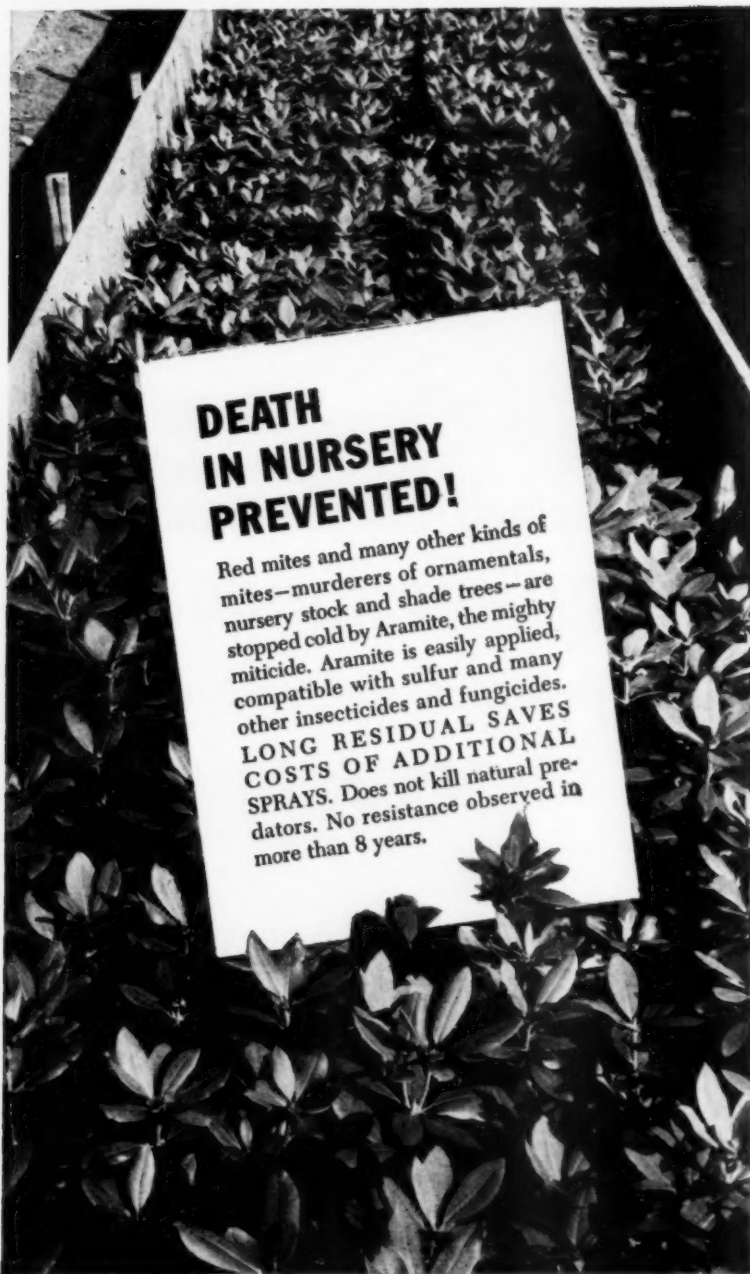
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COMING EVENTS

MEETING CALENDAR

May 25 and 26—Short course for Texas nurserymen, Memorial Student Center, Agricultural and Mechanical College of Texas, College Station.

May 28 to 30—Florida Nurserymen and Growers Association, convention, Robert Meyer hotel, Jacksonville, Fla.

June 1 to 3—Short course for nurserymen, Southwestern Louisiana Institute, Lafayette, La.

June 3 and 4—California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, annual nurserymen's refresher course, Cal Poly campus.

June 7 to 9—Alabama Nurserymen's Association, annual convention, Admiral Semmes hotel, Mobile, Ala.

June 7 to 9—Georgia State Nurserymen's Association, convention, Radium Springs, Albany, Ga.

June 14 to 16—Maryland Nurserymen's Association, summer meeting, Harrison Hall hotel, Ocean City, Md.

June 14 to 16—South Carolina Nurserymen's Association, annual convention, Wade Hampton hotel, Columbia, S. C.

June 18—Kansas Arborists' Association, field day, Wichita, Kan.

June 18 and 19 — Fifth annual nurserymen's and growers' short course, University of Florida, Gainesville, Fla.

June 19 to 21 — Landscape seminar, Louisiana State University, Baton Rouge, La.

June 22 to 24—Illinois State Nurserymen's Association, short course, Southern Illinois University, Carbondale, Ill.

June 22 to 24—Kentucky State Nurserymen's Association, summer meeting, Ken Lake hotel, Kentucky Lake state park, Hardin, Ky.

June 23 and 24—Short course for Missouri nurserymen, University of Missouri, Columbia, Mo.

June 28 to 30—Mississippi Florists' and Nurserymen's Association, convention, Eola hotel, Natchez, Miss.

June 28 to July 1—Plains Nurserymen's Association and the New Mexico Association of Nurserymen, fifth joint convention, Hilton hotel, Albuquerque, N. M.

July 1—Connecticut Nurserymen's Association, family party, Lake Compounce, Bristol, Conn.

July 7 to 9—New York State Nurserymen's Association, summer meeting, Statler Club, Cornell University campus, Ithaca, N. Y.

July 18 to 23—American Association of Nurserymen, annual convention and trade show, Sheraton hotel, Philadelphia, Pa.

August 4 to 7—Michigan Association of Nurserymen, nursery and landscape management conference and nursery tour, Michigan State University, East Lansing.

August 5—New Jersey Association of Nurserymen, summer meeting, Princeton Nurseries, Princeton, N. J.

August 5 to 7—West Virginia Nursery-

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- Pinocchio
- Red Pinocchio
- Spartan
- White Bouquet

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- Cl. Crimson Glory
- Cl. Golden Showers
- Cl. High Noon
- Cl. Parade
- Cl. Pinkie
- Cl. Spectacular

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 - Condesa de Sastago
 - Crimson Glory
 - Eclipse
 - Frau Karl Druschki
 - Girona
 - Joanna Hill
 - K. A. Victoria
 - Mme. Henri Guillot
 - Mrs. E. P. Thom
 - Mrs. P. S. du Pont
 - McGredy's Ivory
 - McGredy's Scarlet
 - McGredy's Yellow
 - Picture
 - President Hoover
 - Radiance
 - Red Radiance
 - Saturnia
 - Shining Star
 - Signora
 - Sister Therese
 - Snowbird
 - Talisman
 - Texas Centennial
 - The Doctor
 - Virgo

NONPATENTED FLORIBUNDAS

- No. 1 No. 1 1/2
- Betty Prior
 - Charlie McCarthy
 - Else Poulsen
 - Floradora
 - Fransham
 - Garnette
 - Improved Lafayette
 - Poulsen's Bedder
 - Red Ripples
 - Royal Chinook
 - Snowbank
 - World's Fair

NONPATENTED CLIMBERS

- Cl. American Beauty
- Cl. City of York
- Cl. Doublebloss
- Cl. Gold Rush
- Cl. Inspiration
- Cl. Mrs. E. P. Thom
- Cl. New Blaze
- Cl. New Dawn
- Cl. Paul's Lemon Pillar
- Cl. Paul's Scarlet
- Cl. President Hoover
- Cl. Ruth Alexander
- Cl. Snowbird
- Cl. Talisman
- Cl. Temptation
- Cl. Zenith

*Asterisk indicates stock available.

WHOLESALE PATENT PRICES

Retail Price	10 to 19 No. 1	20 to 99 No. 1	100 to 249 No. 1	250 and up No. 1
\$1.75	\$1.00	\$0.87 1/2	\$0.80	\$0.75
2.00	1.10	1.00	.95	.85
2.25	1.25	1.12 1/2	1.05	.95
2.50	1.40	1.25	1.20	1.10
2.75	1.50	1.37 1/2	1.30	1.20
3.00	1.65	1.50	1.40	1.30
3.50	1.85	1.75	1.55	1.40

Grade No. 1 1/2 is 20% less than No. 1 price

WHOLESALE NONPATENT PRICES

Grade	110 to 500 No. 1	510 to 1000 No. 1	1010 to 2500 No. 1	2510 to 5000 No. 1	5010 to 7500 No. 1
No. 1	60c each	57c each	56c each	55c each	54c each
No. 1 1/2	50c each	47c each	46c each	45c each	44c each

NOTE: Patent and nonpatent rose orders will be combined for quantity rate on nonpatent varieties.

SHIPPING PREPAID

at pool car rate (5c per bush). P & D pays balance of air freight.

Minimum order 100 Roses. Please specify if substitute variety or grade No. 1 1/2 may be shipped if desired grade or variety is out of supply.

Trimming: Your roses will be trimmed to 8 ins., 10 ins. or 12 ins. (specify which) to facilitate air shipment. Order today!



PETERSON & DERING

ROSE GROWERS • SCAPPOOSE, OREGON

TELEPHONE LINDEN 3-6323



Brillion

BUILDS THE BEST

LANDSCAPE SEEDER

"We just can't say
enough in favor of it..."

A letter from
Mr. Carlton B. King
King's Landscaping Co.
Saugerties, N. Y.

"The Brillion Landscape Seeder is indeed a remarkable machine. We are more than pleased with its operation.

"We have just finished seeding over 3½ tons of seed with it on a variety of soils and with wonderful results. Some of the fields seeded were badly washed by a heavy rain, yet the seed was so firmly packed in the soil that germination was still very good. By other seeding methods these areas would most certainly have had to be reseeded.

"Due to the perfect operation of the machine, we saved enough seed on one job to pay for the cost of the machine; so we just can't say enough in favor of it.

"Thanks very much for the service you gave us and especially for making such a serviceable machine."



Mr. King with his Brillion Landscape Seeder. This same seeder is being used by hundreds of landscape men on jobs from the smallest residential sites to huge highway right-of-way contracts.

One Brillion Landscape Seeder and one man can do up to 40 hours' work in just one hour. Brillion gives you uniform seeding—all seeds in top ¼-in., in a firm seedbed—and sturdy, near-perfect stands, even under conditions where hand-sowing often fails. Works close against foundations, fences, walks. This is a precision machine that lasts for years. Straight pull or 3-point hitch models . . . 5-ft. 4-in. size.

Brillion Iron Works, Inc.
Brillion, Wis., Dept. SG-17-5

Please send me prices and literature on the Brillion Landscape Seeder.
Write your name and address in the margin.

men's Association, summer meeting, Daniel Boone hotel, Charleston, W. Va.

August 6 and 7—Iowa Nurserymen's Association, summer meeting, Shenandoah Nurseries, Shenandoah, Ia.

August 9 to 11—National Mail Order Nurserymen's Association, Inc., summer meeting, Hotel La Salle, Chicago, Ill.

August 11 to 13—Ohio Nurserymen's Association, summer meeting, Lake Erie College, Painesville, O.

August 12 — Pennsylvania Nurserymen's Association, summer meeting, Hershey park, Hershey, Pa.

August 16 to 18—Virginia Nurserymen's Association, summer meeting, the Cavalier hotel, Virginia Beach, Va.

August 16 to 19—Texas Association of Nurserymen, annual convention, Fort Brown memorial center, Brownsville, Tex.

August 17 to 21—National Shade Tree Conference, annual meeting, Statler hotel, Detroit, Mich.

August 19 — New England Nurserymen's Association, summer meeting, Harkness memorial park, Waterford, Conn.

August 23 to 25—Southern Nurserymen's Association, annual convention, Robert Myer hotel, Jacksonville, Fla.

September 22 to 24—California Association of Nurserymen, annual convention, Lafayette hotel, Long Beach, Calif.

SOUTH CAROLINA PLANS

Detailed plans for the annual convention of the South Carolina Nurserymen's Association have been announced. A program of the events scheduled for the meeting, which will be held June 14 to 16 at the Wade Hampton hotel, Columbia, S. C., follows:

JUNE 14

3 p. m.—Registration.

7:30 p. m.—Social hour and buffet supper, on the mezzanine.

JUNE 15

8 a. m.—Registration.

9 a. m.—Call to order, by President W. B. Marvin, Wildwood Nurseries & Garden Shop, Walterboro.

9:30 a. m. — Welcome address, by Mayor Lester Bates. Appointment of committees and report by secretary-treasurer.

10 a. m.—"Present and Future Plans of the South Carolina Highway Department," by F. E. McEachern, Jr.

11 a. m.—"Merchandising," by Arthur J. Lancaster, Jr., Coleman Nursery, Inc., Portsmouth, Va.

12:30 p. m.—Leave for barbecue lunch at Stephanson's Nurseries, Irmo, S. C.

2:30 p. m.—Tour of the South Carolina Electric & Gas Co.'s hydroelectric unit at Lake Murray, S. C.; the newly landscaped campus of the University of South Carolina, Columbia, and Forest Lake Garden Center.

7 p. m.—Social hour, ballroom on the mezzanine.

8 p. m.—Banquet, in the ballroom; prizes, floor show and dancing.

JUNE 16

8 a. m. — American Association of Nurserymen, Dutch breakfast.

9:15 a. m.—"Grass and Weed Control," by R. F. Richards, Geigy Chemical Corp., Ardsley, N. Y.

10 a. m. — "Nematode Control," by

VAL-PEAT® POTS - THE BETTER, STURDIER PEAT POT

AMERICAN MADE - - "FULL DIMENSIONAL"

Val-PEAT Pot sizes are inside top diameters "full dimensional." Our new 2 1/4-in. square Val-PEAT Pots hold 42% more soil than some other peat pots of the same stated dimension. Our 2 1/4-in. round Val-PEAT Pots also hold more soil than other brands.

ORDER VAL-PEAT POTS AND RECEIVE FULL MEASURE.

Mums
Carnations
Hydrangeas
Perennials

Nursery Stock
Foliage Plants
Poinsettias

VAL-PEAT POT ORDERS 150 LBS.
AND OVER PREPAID IN U.S.A.



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VAL-PEAT POTS—ROUND SIZES

Inside top Dimension of pot	Number of pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428A 2 1/4-in. Diameter	2,000 to 18,000	30 lbs.	\$ 7.25
Round	20,000 to 74,000		6.75
S-1428B 3-in. Diameter	1,000 to 9,000	24 lbs.	6.25
Round	10,000 to 49,000		12.25
S-1428C 4-in. Diameter	500 to 2,000	27 lbs.	11.00
Round	2,500 to 10,000		29.25
S-1428E 4-in. Round	11,000 and over		26.75
Azalea	500 to 2,000	25 lbs.	23.25
	2,500 to 9,500		26.25
	10,000 and over		24.75

VAL-PEAT POTS—SQUARE SIZES

Inside top Dimension of pot	Number of pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1429 1 1/2-in. Diameter	2,500 to 17,500	30 lbs.	\$ 7.00
Square	20,000 to 70,000		6.50
	72,500 and over		6.00
S-1428F 2 1/4-in. Diameter	2,000 to 18,000	40 lbs.	11.00
Square	20,000 to 74,000		10.25
	76,000 and over		9.50
S-1428D 3-in. Diameter	1,000 to 9,000	40 lbs.	18.25
Square	10,000 to 49,000		17.00
	50,000 and over		15.25

NEW

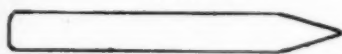
LITE-WEIGHT No. 10 TWO SQUARE SIZES — 2 1/4 and 3-inch

For some growing purposes, these lighter weight pots are preferred.

Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
2 1/4-in.	2,500 to 17,000	2500	30 lbs.	\$7.50
Square No. 10	20,000 to 72,500			7.00
	75,000 and over			6.50

Inside top Dimension of pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
3-in.	1,000 to 9,000	1200	30 lbs.	\$14.50
Square No. 10	10,000 to 49,000			13.25
	50,000 and over			12.25

NEW

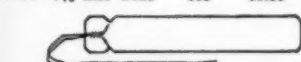


Pot Label

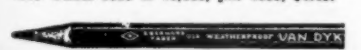
WOOD POT LABELS. We carry the best quality of wooden labels made. They are smooth, strong and neat, 3/8 in. wide. When ordering, specify pot labels or garden stakes, painted or plain.

	Packed to Carton	Plain Per 1000	Painted Per 1000
4-in.	1000	\$3.10	\$3.80
5-in.	1000	3.30	4.10
6-in.	1000	3.60	4.50
8-in.	500	5.30	6.60
10-in.	500	6.30	7.70
12-in.	500	7.50	9.10

	Packed to Carton	Plain Per 1000	Painted Per 1000
8-in.—7/8 in. wide	250	\$ 7.70	\$ 9.00
10-in.—7/8 in. wide	250	8.70	10.10
12-in.—1 1/8 in. wide	100	15.50	18.00



WOOD TREE LABELS COPPER WIRED. 3/8 in. by 1/2 in. Per 1000, \$-15.42 plain, \$3.60; 5000 to 10,000, per 1000, \$3.55; \$-15.41 painted, per 1000, \$4.50; 5000 to 10,000, per 1000, \$4.45.



WEATHERPROOF PENCILS. Black lead. Ideal for marking pot labels, garden stakes or other outdoor work.

Cat. No.	Packed	Wt.	Dealers' Cost	Retail
S-1520	12	1/2 lb.	\$ 1.00	\$0.15
	36	1/2 lb.	2.85	.15
	144	2 lbs.	10.80	.15

Z.I.P. RABBIT AND DEER REPELLENT. Z.I.P. acts as a TASTE repellent. It stops deer from eating and tends to break up browsing areas. Z.I.P. STICKS. It contains nothing to harm domesticated animals, yet protects valuable plantings from deer and rabbit destruction. In growing season use 1 qt. to 10 gallons of water. In dormant season use 1 qt. to 5 gals of water. 6 oz. and 16 oz. are aerosol bombs.



Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S278	6 oz.	12	7	\$ 8.00	\$ 1.00
	16 oz.	12	17	18.00	2.25
	1 qt.	12	27	28.80	3.50
	1 gal.	4	36	34.40	11.40



WESTER PROFESSIONAL IMPORTED GERMAN PRUNING SHEAR. Hot-forged of high carbon steel. Long-lasting cutting quality. Ratchet holds lock nut in place.

Cat. No.	Size	Each
S1058	8 1/2 in.	\$3.75
S1059	8 1/2 in.	4.50



WATERPROOF TREE WRAP PAPER. Used by tree experts, nurserymen and homeowners to help young trees to mature. Also protects your saplings and shrubs from early frosts, scorching sun, rabbits and insects. Rolls are 4 ins. wide, 150 ft. long. 10 rolls to a master roll.

Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S1543	4 ins.	1	3 lbs.	\$ 0.65	\$1.00
	4 ins.	10	24 lbs.	6.00	
	4 ins.	30	72 lbs.	16.50	



TREE TANGLEFOOT is a nondrying sticky compound. It is applied as a bond to completely encircle the trunks of trees, thereby preventing climbing insects from reaching foliage, buds or fruit.

Cat. No.	Size	Packed	Wt.	Dealers' Cost	Retail
S328	6 oz.	12	6 lbs.	\$ 7.20	\$0.90
	1 lb.	12	14 lbs.	12.00	1.50
	5 lbs.	4	22 lbs.	18.70	7.00
	25 lbs.	1	30 lbs.	21.00	26.50
	25 lbs.	3	90 lbs.	59.64	26.50

CHICAGO 6
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Vaughan's Seed Co.
THE FLOWER SEED HOUSE OF AMERICA

NEW YORK 13
85 White St.
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Are You Prepared for the BOOM in 1960

?

There is still plenty of time to plant potted

liners that live
and cash in on the big demand that is bound to develop. They grow into money fast.

Plant them in the field or in containers.
We can supply PLANTAINERS, the best containers.

Minimum 25 of any one variety.

SHRUBS

Each	Each
BERBERIS (Barberry)	PHILADELPHUS (Mock Orange)
<i>Mentorensis</i> , 2 1/4-in. pots \$0.20	<i>Avalanche</i> , 2 1/4-in. pots \$0.16
CARYOPTERIS (Blue Spiraea)	<i>Coronarius</i> , 2 1/4-in. pots ..... .16
<i>Azure</i> , new, improved, 2-in. pots. .16	<i>Enchantment</i> , 2 1/4-in. pots ..... .16
COTONEASTER	<i>Mont Blanc</i> , 2 1/4-in. pots ..... .16
<i>Divaricata</i> , 2-in. pots ..... .18	PRUNUS
DEUTZIA	<i>Jacquemonti</i> , 3-in. pots ..... .16
<i>Corymbosa</i> (Himalaya Deutzia),	RIBES (Currant)
2 1/4-in. pots ..... .16	<i>Odoratum</i> , 2 1/4-in. pots ..... .16
EUONYMUS	SALIX (Willow)
<i>Alatus compactus</i> , 2 1/4-in. pots .. .16	<i>Discolor</i> , 2 1/4-in. pots ..... .16
<i>Europaeus</i> , 2 1/4-in. pots ..... .16	SAMBUCUS (Elder)
FORSYTHIA (Golden Bell)	<i>Canadensis aurea</i> , 2 1/2-in. pots .. .16
<i>Arnold's Giant</i> , 2-in. pots ..... .16	SPIRAEA
<i>Intermedia spectabilis</i> , 2 1/4-in.	<i>Anthony Waterer</i> , 2-in. pots .... .17
pots ..... .15	<i>Arguta</i> , 2-in. pots ..... .16
<i>Lynwood Gold</i> , 2 1/4-in. pots ..... .16	<i>Froebeli</i> , 2-in. pots ..... .16
<i>Spring Glory</i> , 2 1/4-in. pots ..... .16	<i>Japonica coccinea</i> , 2-in. pots .... .18
<i>Viridissima bronxensis</i> , 2-in. pots .18	<i>Thunbergii</i> , 2-in. pots ..... .16
LONICERA (Bush Honeysuckle)	SYRINGA (Lilac)
<i>Clayey's Dwarf</i> , 2-in. pots ..... .20	<i>Rothomagensis</i> , 2 1/4-in. pots .... .16
<i>Korolkowi floribunda</i> , 2-in. pots. .16	<i>Rothomagensis</i> , Pink-Flowering.
<i>Tatarica</i> , Wheeling, 2-in. pots ..... .16	2 1/4-in. pots ..... .18
	VIBURNUM
	<i>Opulus</i> , 2 1/4-in. pots ..... .16
	<i>Opulus sterile</i> , 2 1/4-in. pots ..... .16

VINES

CELASTRUS (Bittersweet)	LONICERA (Honeysuckle)
<i>Scandens</i> , fruiting strain,	<i>Redgold</i> (Tellmanniana), 2 1/4-in.
2-in. pots ..... .16	pots ..... .18
EUONYMUS	<i>Yellownet</i> , 2-in. pots ..... .16
<i>Fortunei coloratus</i> , 2 1/2-in. pots. .25	POLYGONUM
<i>Fortunei coloratus</i> , 2-in. pots ... .20	<i>Reynoutria</i> , 2 1/4-in. pots ..... .18

EVERGREENS

JUNIPERUS (Juniper)	JUNIPERUS (Juniper)—Continued
<i>Chinensis pfitzeriana</i> , 2 1/4-in. pots .20	<i>Excelsa stricta</i> , 2 1/4-in. pots .... .20
<i>Chinensis pfitzeriana</i> , Golden,	<i>Kosteri plumosa</i> , 2 1/4-in. pots ... .20
2 1/4-in. pots ..... .20	<i>Sabina</i> (Savin), 2 1/4-in. pots .... .20
<i>Chinensis pfitzeriana</i> , Silver,	<i>Sabina tamariscifolia</i> ,
2 1/4-in. pots ..... .22	2 1/4-in. pots ..... .20
<i>Chinensis procumbens</i> , 2 1/4-in.	<i>Sabina voncharon</i> , 2 1/4-in. pots ... .20
pots ..... .20	TAXUS (Yew)
<i>Communis plumosa</i> (Andorra),	<i>Cuspidata</i> (Japanese Yew),
2 1/4-in. pots ..... .20	2 1/4-in. pots ..... .20

BROAD-LEAVED EVERGREENS

COTONEASTER	EUONYMUS —Continued
<i>Divaricata</i> , 2-in. pots ..... .18	<i>Fortunei vegetus</i> , 2 1/4-in. pots .. .22
EUONYMUS	<i>Manhattan</i> , 2 1/4-in. pots ..... .20
<i>Fortunei</i> , 2 1/4-in. pots ..... .20	<i>Patens</i> , large-leaved, 2 1/4-in. pots .16
<i>Fortunei coloratus</i> , 2 1/2-in. pots .25	PYRACANTHA (Firethorn)
<i>Fortunei coloratus</i> , 2-in. pots .... .20	<i>Coccinea</i> , Vincent's Hardy Strain,
<i>Fortunei minimus</i> , 3-in. pots ..... .35	2-in. pots ..... .18
<i>Fortunei minimus</i> , 2-in. pots ..... .25	<i>Coccinea pauciflora</i> , 3-in. pots .. .22
	<i>Coccinea pauciflora</i> , 2-in. pots .... .18

WILLIS NURSERY CO.

Your Wholesale Nurserymen
Ottawa, Kan.

E. H. Lemire, Shell Chemical Corp., New York, N. Y.

10:45 a. m. — Business meeting and election of officers.

12:30 p. m.—Leave for golf tournament at Fort Jackson golf course.

PROGRAM FOR FLORIDA

The convention of the Florida Nurserymen and Growers Association, to be held May 28 to 30 at the Robert Meyer hotel, Jacksonville, Fla., will be staged according to the following program, recently released by James F. Griffin, Jr., F. N. G. A. executive secretary:

THURSDAY, MAY 28

9 a. m.—Registration.

1 p. m.—Landscape men's and nurserymen's meeting, with Gervin Pringle, Florida Nursery & Landscape Co., Leesburg, chairman.

"Is the Price Right?"—A panel discussion.

1 p. m.—Foliage growers' meeting, with Hugh Lalor, Caribbean Nurseries, Opa Locka, chairman, and R. Van Over-schelde, F. W. Woolworth Co., speaker.

3:30 p. m.—Merchandising and sales meeting, with T. B. Byrd, chairman, and D. Murray Franklin, Garden Supply Merchandiser magazine, speaker.

7:30 p. m.—Chuck wagon dinner and square dance.

FRIDAY, MAY 29

8:45 a. m.—Film, "Basic Technique for Home Landscaping."

9 a. m.—Business meeting.

Welcome address, by state senator Edwin Fraser, Southern States Nursery, Macclenny.

11 a. m.—"Sell or Else," by G. H. W. Schmidt, manager, Florida Ford Tractor Co.

12:30 p. m.—American Association of Nurserymen lunch, with F. Raymond Brush, A. A. N. administrative assistant, speaker.

12:30 p. m.—Exhibitors' lunch, with E. B. Odenkirk, chairman.

12:30 p. m.—Ladies' lunch.

"Contemporary Table Decorations with Flowers," by Mrs. Jack White.

2:30 p. m.—Tour of A. G. Cummer estate and Italian gardens.

SATURDAY, MAY 30

7:45 a. m.—A. A. N. breakfast; election of A. A. N. Florida chapter officers.

8:45 a. m.—Film, "Enthusiasm in Selling."

9 a. m.—Business meeting; election of officers.

11 a. m.—"You Are Important," by Harry A. Schneider, sales manager, United Electric Co.

12:30 p. m.—Board of directors' lunch and meeting.

2:30 p. m.—Trip to United States Naval Air Station, Mayport, Fla.

7:30 p. m.—Past presidents' banquet.

"There Is No Such Thing as a Free Lunch," by Bryan Blalock, Borden Co. Dancing.

LOUISIANA PROGRAM

The details of the program for the short course for nurserymen, to be held at the Southwestern Louisiana Institute, Lafayette, La., June 1 to 3, have been announced by Dr.



Portion of canned stock at Laurel Lake Nurseries, Salemburg, N. C. under pine shade, where J. S. Howard, owner, has conducted numerous tests in association with state agricultural colleges to develop the highest-quality plants possible to be grown.

J.S. Howard, who depends on Du Pont "Uramite" to supply his plants and ornamentals with an adequate level of available nitrogen...the most important element in any fertilization program.

"Comparative tests showed Du Pont 'URAMITE' is the most efficient source of nitrogen for our fertilization program"

reports **J. S. HOWARD**, owner, *Laurel Lake Nurseries, Salemburg, N. C.*

Significant differences in winter hardiness, compactness, total height and width of ornamentals have been noted in favor of single applications of Du Pont "Uramite" at 100 to 150 lbs. of nitrogen over any other treatment. These results were noted in a project begun in 1955 at Laurel Lake Nurseries, Salemburg, N. C.

Du Pont "Uramite" at 50, 100, and 200 lbs. of nitrogen per acre was compared with other nitrogen fertilizers. There were four applications of the regular nitrogen sources compared to a single application of "Uramite" on *ilex crenata rotundifolia*, *ilex crenata convexa*, *ilex cornuta burfordi*, *azalea var. Hinodigiri*

and several *camellias japonica* and *sesanqua*.

Du Pont "Uramite" releases nitrogen gradually, feeding at the rate needed for healthy growth and season-long vitality of ornamental plants. "Uramite" resists leaching... saves time and labor, too, because

it's concentrated—38% nitrogen—there's less material to handle, store and apply. Do as professional growers and superintendents like J. S. Howard of Laurel Lake Nurseries have so successfully done—use Du Pont "Uramite" as the source of nitrogen in your fertilization program.

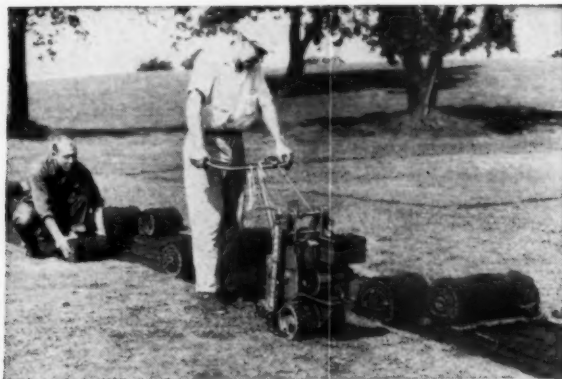
See Your Supplier
for the Highest-Quality, Long-Lasting
Nitrogen Fertilizer



URAMITE®
fertilizer compound

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

New, low cost Sod Cutter cuts 4500 sq. ft. of sod per hour



Now at half the cost of large commercial models . . . the brand new Ryan Jr. Model Sod Cutter handles a wide variety of sod cutting operations with proved efficiency.

This new full-time performer easily handles three turf maintenance problems:

First — it cuts 75 square feet of perfect sod per minute to just the thickness you want. Finest bents or toughest rooted grasses are no problem either; the specially designed blade with its reciprocating action slices cleanly through the roots without clogging or tearing.

Second — A special tilling blade operating at 1000 strokes per minute loosens and pulverizes hard, compacted soil for easy grading when resodding or seeding.

Third — The Ryan Jr. Sod Cutter with a special edging blade eliminates up to 90% of the hand labor required in many trimming or edging jobs.

And this versatility is matched by the famous, engineered dependability of all RYAN Sod Cutters, now used by over 90% of the turf growers and nurserymen in the United States and Canada. Sold and serviced by distributors in most principal cities. Write for full particulars and name of distributor nearest you.

NEW EDGING BLADE
—eliminates up to 90%
of hand labor involved
in edging sand traps,
flower beds, driveways,
etc. Cuts sharp edge 4"
wide and up to 3" deep.



LANDSCAPING EQUIPMENT
Company

871 Edgerton Street • St. Paul 1, Minnesota

James A. Foret, professor of horticulture, S. L. I. The schedule of the activities is as follows:

JUNE 1

8 a. m.—Registration. Lee Hall, S. L. I. campus.

1 p. m.—"Site Selection and Drainage for Container-grown Plants," by Gordon Dugal, Sr., professor and head, department of agricultural engineering, S. L. I.

3:15 p. m.—"Soil Mixtures for Container-grown Plants," by Dr. C. O. Box, assistant horticulturist, Mississippi State College, State College, Miss.

7 p. m.—Dutch treat supper at Poor Boy's Riverside Inn.

JUNE 2

8:30 a. m.—"Selection of the Container and Its Influence on the Crop," by Earl Vallot, Grandview Nursery, Youngsville, La.

10:30 a. m.—"Propagation and Liner Production of Plants for Container Culture," by Dr. C. O. Box.

1:30 p. m.—"Fertilization and Maintaining Fertility Levels for Container-grown Plants," by Dr. S. L. Solymosy, Cornelius Nurseries, Houston, Tex.

3:15 p. m.—"Specific Growers' Problems with Container-grown Plants," a panel discussion with Dr. C. O. Box; Dr. S. L. Solymosy; Wylie A. Roach; Earl Vallot, and Dr. J. A. Foret, moderator.

JUNE 3

8:30 a. m.—"Cultural Practices with Container-grown Plants—Pruning, Spraying, Watering," by Dr. J. A. Foret.

10:15 a. m.—"Mechanization of the Container Plant Industry and Some Costs of Production," by Dr. S. L. Solymosy.

A. A. N. JUNIORS' PROGRAM

Sons and daughters of nurserymen attending the American Association of Nurserymen's convention, July 18 to 23, at the Sheraton hotel, Philadelphia, will have a full schedule of activities that should be entertaining and educational at the same time. Trips to the famous landmarks of historic Philadelphia are in store for the juniors, as well as parties and other entertainment features that will be held at the convention headquarters.

The program of the special events planned for the juniors (those under 18) and those in which they will join is as follows:

SUNDAY, JULY 19

4 p. m.—Get-acquainted party, Grand ballroom east.

8 p. m.—"Pennsylvania Dutch Nacht," party in the Grand ballroom; special gifts, refreshments, entertainment and dancing.

MONDAY, JULY 20

8:45 a. m.—Tour of historic Philadelphia, including visits to Independence Hall, Betsy Ross' house and Admiral Dewey's flagship, Olympia.

11:15 a. m.—Dutch treat lunch at Horn & Hardart's Automat.

12 noon—Philadelphia zoo trip.

3:30 p. m.—Visit to the Trade and Convention center and the Commercial museum.

7 p. m.—Nurserymen's Jamboree, in the Grand ballroom; refreshments, clam

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AMERICAN ARBORVITAE VARIETIES

(Thuja occidentalis)		
	Per 10	Per 100
Dark Green American Arborvitae	\$2.25	\$2.00
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.50	3.00
Compacta erecta globosa Arborvitae		
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.50
Globosa (American Globe) Arborvitae		
12 to 15 ins.	1.45	1.25
15 to 18 ins.	1.80	1.60
Pyramidal American Arborvitae		
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75

ORIENTAL ARBORVITAE VARIETIES

(Thuja orientalis)		
	Per 10	Per 100
Baker Arborvitae	\$1.40	\$1.35
2 to 3 ft.		
Berckmans Arborvitae	1.40	1.20
15 to 18 ins.		
Blue Cone Arborvitae		
24 to 30 ins.	1.45	1.25
30 to 36 ins.	1.70	1.50
Benita Arborvitae		
12 to 15 ins.	1.00	.90
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.65	1.50
Excelsa Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50
Newark Arborvitae		
24 to 30 ins.	1.40	1.25
30 to 36 ins.	1.70	1.50

JUNIPERS, SPREADING VARIETIES

	Per 10	Per 100		Per 10	Per 100
Andorra Juniper, green			Hetz Blue Juniper		
15 to 18 ins.	\$1.60	\$1.40	15 to 18 ins.	\$1.45	\$1.30
18 to 24 ins.	1.90	1.75			
24 to 30 ins.	2.50	2.25	Savin Juniper		
Pfitzer Juniper			12 to 15 ins.	1.00	.90
12 to 15 ins.	1.25	1.10	15 to 18 ins.	1.35	1.20
15 to 18 ins.	1.65	1.50			
Pfitzer Blue Juniper			Von Ehron Juniper		
24 to 30 ins.	2.75	2.50	15 to 18 ins.	1.35	1.20
Compact Pfitzer Juniper					
12 to 15 ins.	1.25	1.10	Repandens Juniper		
15 to 18 ins.	1.65	1.50	(Virginia repandens), dark green, good winter color		
Pfitzer Nana Juniper			12 to 15 ins.	1.00	.90
12 to 16 ins.	1.25	1.10	15 to 18 ins.	1.35	1.20
15 to 18 ins.	1.65	1.50			

JUNIPERS, UPRIGHT VARIETIES

	Per 10	Per 100		Per 10	Per 100
Juniperus virginiana glauca			Greek Juniper		
3 to 4 ft.	\$3.75	\$3.50	(Juniperus excelsa stricta)		
Juniperus virginiana canescens			15 to 18 ins.	\$1.35	\$1.20
3 to 4 ft.	3.75	3.50	18 to 24 ins.	1.65	1.50
4 to 5 ft.	4.75	4.50	Hetz glauca Juniper, sheared pyramids		
Fastigiata Juniper			24 to 30 ins.	2.25	2.00
24 to 30 ins.	1.10	1.00	30 to 36 ins.	3.00	2.75
30 to 36 ins.	1.40	1.25	3 to 4 ft.	3.75	3.50
3 to 4 ft.	1.65	1.50	Von Ehron Juniper, sheared pyramids		
			3 to 4 ft.	3.75	3.50

BROAD-LEAVED EVERGREENS

	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
Abelia grandiflora			Ilex opaca howardi			Loropetalum chinense		
2 to 3 ft.	\$1.25	\$1.00	2 to 3 ft.	\$2.25	\$2.00	(Texas Fringe)		
3 to 4 ft.	1.50	1.25	3 to 4 ft.	3.25	3.00	18 to 24 ins.	\$1.15	\$1.00
Elaeagnus pungens			4 to 5 ft.	4.25	4.00	24 to 30 ins.	1.75	1.50
2 to 3 ft.	1.25	1.00	5 to 6 ft.	5.50	5.00	Magnolia grandiflora		
3 to 4 ft.	1.75	1.50	Ilex opaca Hume No. 2			2 to 3 ft.	1.75	1.50
Euonymus coloratus			3 to 4 ft.	3.25	3.00	3 to 4 ft.	2.75	2.50
18 to 24 ins.	1.20	1.00	4 to 5 ft.	4.25	4.00	4 to 5 ft.	3.75	3.50
24 to 30 ins.	1.40	1.25	5 to 6 ft.	5.50	5.00	Magnolia glauca (Sweet Bay)		
30 to 36 ins.	1.75	1.50	Ilex vomitoria, small-leaved, sheared			2 to 3 ft.	1.50	1.25
Euonymus patens			18 to 24 ins.	1.15	1.00	3 to 4 ft.	2.25	2.00
18 to 24 ins.	1.20	1.00	24 to 30 ins.	1.65	1.50	4 to 5 ft.	3.25	3.00
24 to 30 ins.	1.40	1.25	30 to 36 ins.	2.25	2.00	5 to 6 ft.	4.50	4.00
30 to 36 ins.	1.75	1.50	3 to 4 ft.	2.75	2.50	6 to 8 ft.	7.00	6.00
Ilex cornuta burfordi			Ilex vomitoria Pride of Houston			Nandina domestica		
15 to 18 ins.	1.10	1.00	18 to 24 ins.	1.15	1.00	15 to 18 ins.	.80	.75
18 to 24 ins.	1.40	1.25	24 to 30 ins.	1.65	1.50	18 to 24 ins.	1.00	.90
Ilex cornuta femina			30 to 36 ins.	2.25	2.00	24 to 30 ins.	1.40	1.25
15 to 18 ins.	1.10	1.00	Ilex vomitoria nana (Dwarf Yaupon)			30 to 36 ins.	1.65	1.50
18 to 24 ins.	1.40	1.25	12 to 15 ins.	1.50	1.25	3 to 4 ft.	2.25	2.00
Ilex crenata Biloxi			15 to 18 ins.	2.00	1.75	Viburnum burkwoodi		
Strong grower, very hardy, shears well			Jasmine, floridum			18 to 24 ins.	1.65	1.50
15 to 18 ins.	1.10	1.00	15 to 18 ins.	1.15	1.00	24 to 30 ins.	1.90	1.75
18 to 24 ins.	1.65	1.50	18 to 24 ins.	1.40	1.25	30 to 36 ins.	2.25	2.00
24 to 30 ins.	2.25	2.00	24 to 30 ins.	1.70	1.50	Viburnum chenaulti		
Ilex crenata convexa			30 to 36 ins.	2.00	1.75	18 to 24 ins.	1.65	1.50
12 to 15 ins.	.90	.80	Ligustrum lucidum (Black Wax)			Viburnum juddi		
15 to 18 ins.	1.10	1.00	24 to 30 ins.	1.25	1.10	15 to 18 ins.	1.40	1.25
18 to 24 ins.	1.65	1.50	3 to 4 ft.	1.50	1.35	18 to 24 ins.	1.65	1.50
24 to 30 ins.	2.25	2.00	3 to 4 ft.	1.90	1.65	Viburnum rhytidophyllum		
Ilex crenata rotundifolia			Ligustrum lucidum Suwanee River			(Leather-leaved Snowball)		
12 to 15 ins.	.90	.80	15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.65	1.50
15 to 18 ins.	1.10	1.00	18 to 24 ins.	2.25	2.00	24 to 30 ins.	1.90	1.75
18 to 24 ins.	1.65	1.50	30 to 36 ins.	2.75	2.50	30 to 36 ins.	2.25	2.00
24 to 30 ins.	2.25	2.00	Carolina Cherry Laurel					
30 to 36 ins.	2.75	2.50	2 to 3 ft.	1.50	1.25	DECIDUOUS TREES		
Ilex opaca, seedlings			3 to 4 ft.	1.75	1.50			
2 to 3 ft.	1.70	1.50	4 to 5 ft.	2.75	2.50	Magnolia nigra		
3 to 4 ft.	2.75	2.50	5 to 6 ft.	3.75	3.50	(Purple Magnolia)		
4 to 5 ft.	3.75	3.50				2 to 3 ft.	\$1.75	\$1.50
5 to 6 ft.	5.50	5.00				Magnolia soulangeana		
Ilex East Palatka						(Pink Magnolia)		
2 to 3 ft.	2.25	2.00				2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.25	3.00				3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.25	4.00				4 to 5 ft.	3.75	3.50
						5 to 6 ft.	5.00	4.50

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Deduct 10 per cent for 250 or more of 1 variety and grade (minimum 25).

Baccata repandens	Each	Cuspidata vermeulen	Each
1-yr., C, T, 2 1/4-in. pot.....	\$0.25	1-yr., C, T, 6 to 10 ins.....	\$0.20
Cuspidata, spreading		2-yr., C, T, 6 to 12 ins.....	.35
2-yr., C, T, 6 to 12 ins.....	.35	4-yr., C, TT, 9 to 12 ins.....	.75
Cuspidata capitata, upright		Media browni	
3-yr., S, TT, 6 to 12 ins.....	.35	2-yr., C, T, 8 to 12 ins.....	.35
4-yr., S, TT, 6 to 12 ins.....	.50	Media hatfieldi	
4-yr., S, TT, 12 to 18 ins.....	.60	1-yr., C, T, 6 to 10 ins.....	.20
5-yr., S, TTT, 12 to 15 ins... .	.75	2-yr., C, T, 6 to 12 ins.....	.35
6-yr., S, TTT, 12 to 15 ins... .	.95	4-yr., C, TT, 9 to 12 ins.....	.75
Cuspidata densiformis		Media kelseyi	
2-yr., C, T, 6 to 12 ins.....	.45	1-yr., C, T, 6 to 9 ins.....	.20
Cuspidata intermedia		2-yr., C, T, 6 to 10 ins.....	.35
2-yr., C, T, 8 to 12 ins.....	.35		

Rooted cuttings—21 varieties. Transplants in Jiffy-Pots—1-yr.

See May 1 issue.

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TUESDAY, JULY 21

9:30 a. m.—Philadelphia naval base trip. (No cameras.)

12 noon—Brock's box lunches served at Franklin D. Roosevelt section of Fairmount park.

1:30 p. m.—Visit to the Franklin Institute and then to see the big presses in a tour of the Philadelphia Bulletin building. Return to the Sheraton hotel via subway train.

Tuesday night, free time.

WEDNESDAY, JULY 22

9 a. m.—Trip to Valley Forge park.

12 noon—Dutch treat lunch at park.

3 p. m.—Return to hotel.

7 p. m.—Past presidents' banquet, Grand ballroom. Special entertainment feature, "Don't Miss Living," and dancing.

RHODODENDRON MEETING

The annual spring meeting of the Middle Atlantic chapter of the American Rhododendron Society will be held at Biltmore estate, Biltmore, N. C., June 12 to 14. B. Y. Morrison will be the speaker at the banquet Saturday evening, after a journey to the mountains to see the native species of azaleas and rhododendron. A tour of Biltmore estate will be conducted Sunday by Dr. Fred Nisbet, Biltmore.

MICHIGAN CONFERENCE

The nursery and landscape management conference sponsored annually by the Michigan Association of Nurserymen and Michigan State University will be limited this year to a single day—August 4—and will be followed by a tour of nurseries in Lake county, Ohio. The tour is being organized by Robert Miller, Miller Nurseries, Lansing, and Dr. Harold Davidson, horticulture department, M. S. U. Sessions of the conference will be held at Kellogg center on the university campus at East Lansing. The tour will leave from the campus August 5 and will return August 7.

PLAN TWO A. A. N. COURSES

Two management conferences will be sponsored by the American Association of Nurserymen for its members this year since the initial venture last year proved so successful and met with such enthusiastic response from the participants. The Sagamore conference center of Syracuse University in the Adirondack mountains, near Raquette Lake, N. Y., where last year's conference was held, will again be the site of one event August 30 to September 5. An additional conference will be

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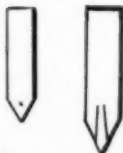
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No. 25	1/2x5 ins.			
1000 to 4000		\$5.50	\$7.00	1 1/4 LBS.
5000 to 9000		4.75	6.00	PER 1000
10,000 to 49,000		4.00	4.75	
50,000 to 99,000		3.25	4.00	
100,000 or more		2.50	3.25	
No. 87 or 87C	3/8x7 ins.			
1000 to 4000		7.50	9.00	2 1/4 LBS.
5000 to 9000		6.50	7.75	PER 1000
10,000 to 49,000		5.50	6.25	
50,000 to 99,000		4.75	5.50	
100,000 or more		4.00	4.75	
No. 47 or 47C	3/4x7 ins.			
1000 to 4000		8.50	10.00	3 LBS.
5000 to 9000		7.50	8.75	PER 1000
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	
100,000 or more		5.50	6.25	

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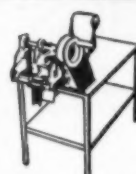
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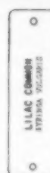
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<i>Acer palmatum atropur-</i>	10	100	<i>Juniperus chinensis</i>	10	100
<i>pureum</i>	\$7.50	\$65.00	<i>columnaris glauca</i>	\$6.50	\$55.00
<i>Acer palmatum dissectum</i>	7.50	65.00	<i>Juniperus chinensis</i>	6.50	55.00
<i>atropurpureum</i>	7.50	65.00	<i>columnaris viridis</i>	6.50	55.00
<i>Acer rubrum columnare</i>	7.50	65.00	<i>Juniperus chinensis keteleeri</i>	6.50	55.00
<i>Acer saccharum</i>	7.50	65.00	<i>Juniperus scopulorum</i>	6.50	55.00
<i>monumentale</i>	7.50	65.00	<i>Blue Haven</i>	6.50	55.00
<i>Cedrus atlantica glauca</i>	7.50	65.00	<i>Juniperus virginiana burkii</i>	6.50	65.00
<i>Chamaecyparis obtusa</i>	6.00	50.00	<i>Juniperus virginiana</i>	6.50	55.00
<i>compacta</i>	6.00	50.00	<i>elegantissima</i>	6.50	55.00
<i>Chamaecyparis obtusa</i>	6.00	50.00	<i>Juniperus virginiana globosa</i>	6.50	55.00
<i>gracilis</i>	6.00	50.00	<i>Juniperus virginiana schottii</i>	6.50	55.00
<i>Cornus florida alba plena</i>	6.50	55.00	<i>Magnolia sieboldi parviflora</i>	7.50	65.00
<i>Cornus florida pendula</i>	7.50	65.00	<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Cornus florida rubra</i>	6.50	55.00	<i>Magnolia stellata</i>	7.50	65.00
<i>Cornus florida rubra Prosser</i>	7.50	65.00	<i>Water Lily</i>	7.50	65.00
<i>Cornus florida weichi</i>	10.00	90.00	<i>Parrotia persica</i>	6.50	55.00
<i>Cornus kousa chinensis</i>	6.50	55.00	<i>Pinus cembra</i>	7.00	60.00
<i>Fagus sylvatica asplenifolia</i>	6.50	55.00	<i>Pinus strobus pendula</i>	8.00	60.00
<i>Fagus sylvatica fastigiata</i>	6.50	55.00	<i>Pinus sylvestris watereri</i>	8.00	70.00
<i>Fagus sylvatica heterophylla</i>	6.50	55.00	<i>glauca</i>	8.00	70.00
<i>Fagus sylvatica pendula</i>	6.50	55.00	<i>Pinus Tanyosho</i>	8.00	70.00
<i>Fagus sylvatica purpurea</i>	10.00	90.00	<i>Quercus robur fastigiata</i>	9.00	80.00
<i>pendula</i>	10.00	90.00	<i>Thuja orientalis aurea nana</i>	5.50	45.00
<i>Fagus sylvatica riversi</i>	6.50	55.00	<i>Thuja orientalis conspicua</i>	5.50	45.00
<i>Hamamelis mollis</i>	6.50	55.00	<i>Thuja orientalis</i>	5.50	45.00
<i>Ilex opaca femina Hookstraw</i>	7.50	65.00	<i>elegantissima</i>	5.50	45.00
<i>(Old Heavy Berry)</i>	7.50	65.00	<i>Tsuga canadensis pendula</i>	6.50	55.00
<i>Ilex opaca femina Judge</i>	7.50	65.00			
<i>Brown</i>	7.50	65.00			

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scheduled this year at the Georgia center for continuing education, University of Georgia, Athens, Ga., August 9 to 15.

In general, the conference schedule at both institutions will consist of: (1) Morning lectures or presentations covering key principles and techniques in the various areas of business administration; (2) afternoon discussion groups in which the ideas of the morning presentations are applied to specific nursery problems, and (3) evening critiques of the day's program, supplemented by case studies. Accounting, finance, employment and personnel relations and marketing will be the primary subjects discussed. Instructors will be from the professional teaching staffs of the college of business administration of the two universities.

MARYLAND DATES

June 14 to 16 are the dates set for the summer meeting of the Maryland Nurserymen's Association, according to C. M. Akehurst, secretary of the M. N. A. Headquarters for the meeting will be Harrison Hall hotel, Ocean City, Md.

WEST VIRGINIA DATES

August 5 to 7 are the dates announced for the summer meeting of the West Virginia Nurserymen's Association by F. Waldo Craig, secretary-treasurer of the association. The Daniel Boone hotel, Charleston, W. Va., will be the headquarters.

PENNSYLVANIA MEETING

Hershey park, Hershey, Pa., is the site selected for the summer meeting of the Pennsylvania Nurserymen's Association, according to Wilbur I. Nisley, secretary-treasurer of the organization. The date for the meeting is August 12.

VIRGINIANS' PLANS

The summer meeting of the Virginia Nurserymen's Association will be held August 16 to 18, according to Charles L. Otey, secretary-treasurer of the group. The Cavalier hotel, Virginia Beach, Va., will be the headquarters for the meeting.

GRAND opening of its new quarters, 5340 23rd avenue, was held recently by Ben's Nursery & Garden Center, Moline, Ill. Free flowers were given to early arrivals on two opening days, and a \$100 planting prize was also offered visitors. Ben Storjohann is the owner.

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CORBETT, ORE.

New Trees Discussed at Canadian Arborists' Meet

By C. G. Dobbins

The Canadian chapter of the National Shade Tree Conference held its 10th annual meeting at Ottawa, Ont., Canada, April 10 and 11. Ottawa is the capital city of Canada and the home of the Federal Department of Agriculture and the National Arboretum.

New officers were elected as follows: President, Al Sellers, Cedarvale Tree Experts, Toronto, Ont.; first vice-president, J. S. Hackett, Canadian Shade Tree Service, Montreal, Que.; second vice-president, Jack Kimmel, city arborist, Toronto, and secretary-treasurer, C. G. Dobbins, parks and recreation commissioner, York township.

Principal speakers were obtained from the Department of Agriculture, the National Arboretum and from the national capital commission, which is responsible for the plans and work underway to make Ottawa a beautiful capital city, with scenic drives and parkways. The climate is similar to that of Moscow, U. S. S. R., with an annual rainfall of 34.89 inches and an annual snowfall of 80.5 inches. Maple trees are predominant, as the national emblem of Canada. These include well established trees, planted by almost all the international dignitaries visiting Ottawa over many years.

City Tree Plans

It was expressed by J. P. Mansfield, city arborist, that the city will have the atmosphere of a tree farm. At least 65 per cent of the trees in the older areas will need replacing. Trees of 10 to 12 feet high are found satisfactory in new subdivisions, but experience has shown that much larger trees are needed for planting the downtown areas and playgrounds, to withstand the abuse of vehicles, vandalism and excessive snow. The city parks department is embarking on a program of publicizing the necessity for trees and tree preservation to the public and is training the playground staff to teach this material on the playgrounds.

A. R. Buckley, curator at the National Arboretum, told of the effects of severe winters on many of the trees being tested for hardiness in the Ottawa area. Some trees seem to build up a resistance against cold

temperatures, and the older they are, the more resistant they become. Some trees that are described in the textbooks as 100 to 150 feet high have only grown to 30 to 50 feet after 60 years and will not likely reach 100 feet in height even if they live to be well over 100 years. That the arboretum trees are not competing with forest trees for height but developing greater spread is felt to be a factor.

Never since new countries were being discovered have there been so many new trees brought before the public as in the past 10 years, declared A. R. Buckley, who talked on "New Trees." The reason for this is, of course, the recognition that the old wide-spreading large tree was really not suitable for city streets, where overhead wires are necessary for servicing homes, and for suburban developments where the small homes being built might render for-

est species incongruous. The fear of disease, too, has led arborists to search for trees immune to prevailing diseases.

Two exotic small maples that are interesting are the Mono maple (*Acer mono*) and the ginnala maple (*Acer ginnala*), both from China, and Japan. The Mono maple is the more picturesque of the two; it grows not more than 25 feet high and has a spread of 20 to 30 feet, with curving trunk and main branches. The ginnala maple is a good small tree for city streets and small homes if it has been kept to a single stem; unless pruned carefully in the nursery it will develop a multiple-trunk system.

Norway Maple Types

There are many varieties of the Norway maple in the collection. One that has golden yellow foliage in spring and early summer would make an excellent companion to the Schwedler maple (*Acer platanoides schwedleri*). This maple was probably sent over from the famous Spaeth Nursery in Germany 50 years ago, and its identity has become lost. In the arboretum it is known only by the name Golden Form, which has been appended to it.

The Waldersee maple (*Acer plat-*

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1-yr., S., budding size.	6.00	50.00
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anoides walderseei) also of the Norway group, has not grown higher than 30 feet in 60 years. It makes a perfect tree with a triangular outline and has leaves that are heavily spotted with light yellow. Both the Crimson King and Faassen's Black maples are growing well here, although both are slow. The Crimson King variety appears to have a brighter crimson coloring.

The blue beech (*Carpinus caroliniana virginiana*) grows wild in the woodlands nearby and might have possibilities as a small tree for the home garden. The Chinese catalpa (*C. ovata*) is thoroughly handy, has small leaves and flowers and makes a shapely tree not more than 25 feet high, with a narrow spread of 10 to 15 feet.

Other Desirables

One of the trees that has been mentioned as a successor to the American elm is the hackberry (*Celtis occidentalis*). This grows into a fine specimen tree at Ottawa and has possibilities, although it can never be so graceful as the larger and more pendulous elm. The Katsura tree (*Cercidiphyllum japonicum*) is a good small tree that has a more or less pyramidal habit. Its ultimate height is often given to exceed 100 feet, but here it does well after 50 years to reach a height of 20 feet.

Among the most beautiful of small trees in this area is the yellowwood (*Cladrastis lutea*). The trees here are extremely picturesque, with large gnarled and bending trunks; the flowers appear most abundant during alternate years. One outstanding hazel has possibilities for use where a small normal tree is desired; this is the Turkish hazel (*Corylus colurna*), which grows into a pyramidal tree not more than 15 feet high. Of the euonymus group, the Nikko spindle tree (*Euonymus nikoensis*) appears to present the best and most shapely specimen. It grows 15 feet high and is perfectly hardy.

Outstanding Ash Trees

Two ash trees in particular are outstanding in the collection. These are the aucuba-leaved ash (*Fraxinus pennsylvanica aucubaefolia*), with dotted yellow leaves, and the Korean ash (*Fraxinus chinensis rhynchophylla*) a shapely ash with good possibilities for street tree planting. Both of these trees are small, the former growing to 25 feet and the latter to about 20 feet.

The honey locust (*Gleditsia*) is well known for "new" trees. Both the Moraine locust and the Sunburst locust appear to be quite hardy, al-

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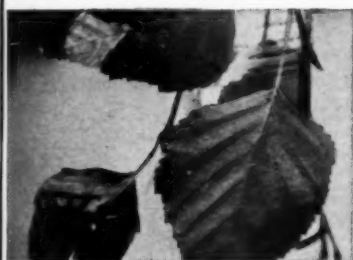
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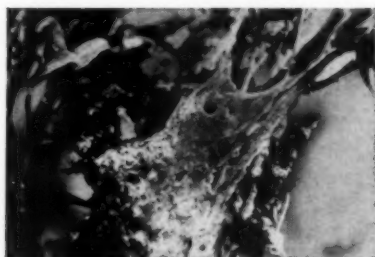


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though the bright golden leaves of the latter are often burned by the sun in early spring.

Sargent's cherry (*Prunus sargentii*) is a beautiful tree both when in flower or during winter with its glowing cherry bark. It has not grown more than 25 feet here. Two lindens have outstanding qualities as street trees—the little-leaved linden (*Tilia cordata*) and the cut-leaved linden (*Tilia platyphyllos laciniata*).

Ask Wilt Research

The members called for immediate research on a large scale to determine a method of control for the wilt diseases that are killing the maple trees of this country. The best known of these diseases is verticillium wilt, which threatens to become more devastating than the Dutch elm disease, if methods are not found soon for its control.

It was resolved that steps be taken to certify the commercial arborist or tree expert who is working on private and municipal trees. This would improve the profession and guard against improper practices by unqualified workmen.

DEIGAARD NURSERY SHOP

[Concluded from page 11]

ing to California in 1921. He first settled at Livermore and was later employed by W. B. Clarke & Co., San Jose, before moving south to Los Angeles county in 1923. He married Agnete Juhl, of Copenhagen, Denmark, who later became owner of the firm upon his death.

Starts Own Business

Employed by the Pioneer Nursery Co. when he came to Monrovia, Mr. Deigaard bought property a year later on Duarte road and started growing plants. He entered partnership with Harry Rosedale two years later, and they established the Monrovia Nursery Co. He and Mr. Rosedale subsequently divided their properties and dissolved their partnership in 1933, with Mr. Rosedale keeping the Monrovia Nursery Co. name and location for his own business.

Mr. Deigaard started his nursery on Huntington drive, at Monrovia, and expanded operations during the years. In addition to the retail nursery, the firm operates wholesale nurseries at Duarte and Bradbury totaling 25 acres. At Goleta, north of Santa Barbara, another 30 acres are under cultivation, with palms grown as a specialty. Fifty employees are used for the firm's various operations. Otto Martens is general manager, while Dean Lowrey heads the retail division.



Mr. Morgan of Green Valley Nursery Co., Covington, La., is shown holding an Azalea mollis which had been in outdoor beds in Jiffy-Pots for 6 months. Says Mr. Morgan, "We like Jiffy-Pots for our liners and we will be using a lot more."

Right — Ilex in 2 1/4-in. Jiffy-Pots, potted in Sept. 1958, picture taken March 1959.



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3. Field planting operations can continue over a longer period of time because Jiffy-Potted liners need not be root-bound prior to going into the field.

The peat pot protects the soil ball during the transplanting operation.



Owen Blackwell of Blackwell Nursery, Semmes, Ala., and Bob Chase (right) of Geo. J. Ball, Inc., admiring Azalea var. Red Wing. This plant was carried in a coldframe from Aug. to Feb. and then bunched in peat moss beds in the plastic house. Owen says, "All of our Azaleas will be handled in Jiffy-Pots because we can grow a larger plant in less time."



"You can replace your nursery stock fast and economically with Jiffy-Pots," says Mr. Roach of Roach's Greenhouse, West Monroe, La. Pictured are Robert Wintz of Geo. J. Ball, Inc., and Mr. Roach examining some young Pittosporum tobira liners, a difficult-to-handle nursery item. Rooted cuttings were potted to Jiffy-Pots at Christmas and now 60 days later they have strong young plants ready to line out.



Richard Oki (right) of Oki Nursery, Sacramento, Calif., and John Kyme of Geo. J. Ball, Inc., looking at Pfitzer Juniper which had been in Jiffy-Pots for 8 months. "We will use nothing but Jiffy-Pots on our liners. They are the best pots we can use in our operation."

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No. 230, 3-in. Square	Per 1000
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No. 240, 4-in. Square	Per 1000
500 to 4500	\$27.50
5000 to 19,500	25.50
20,000 and up	23.50

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SHORTIES

No. 330, 3-in. Shorty	Per 1000
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COVER ILLUSTRATION

Aesculus Woerlitzensis Ellwangeri

A species closely related to *Aesculus neglecta*, a hybrid of unknown origin, is *A. woerlitzensis*, one of the finest buckeyes for horticultural use. Mature trees in cultivation reach 40 to 50 feet and are broadly columnar in outline. The leaves are larger than those of any other species in the genus, save those of *A. turbinata* and *A. hippocastanum*, and have five leaflets simply—or sometimes doubly—serrulate.

A. woerlitzensis ellwangeri has larger leaflets with prominent yellow midrib and conspicuous yellow-green ribs that contrast strongly with the dark, lustrous green surface. There are 20 to 27 pairs of veins as compared with the 17 to 20 pairs found



Aesculus Woerlitzensis Ellwangeri

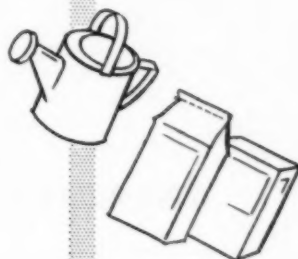
in leaflets of *A. woerlitzensis*, and the undersides of the leaves of *ellwangeri* are a light bluish color, rather than yellowish green, and pubescent when young. The flowers of *A. woerlitzensis ellwangeri* are a darker red than those of *A. woerlitzensis* and are carried on longer panicles.

Aesculus woerlitzensis ellwangeri is a varietal form introduced in 1901 and differs considerably in several respects from both *A. neglecta* and *A. woerlitzensis*. Both *A. woerlitzensis* and the variety *ellwangeri* are handsome flowering trees of pleasing proportions and are worthy of use in large-scale plantings. *A. carnea Brioti*, a fruitless form of the hybrid *A. carnea (A. hippocastanum x pavia)* is more widely used where fruit drop of the buckeyes is an objectionable trait.

J. G.

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OBITUARY

William G. McKay

William G. McKay, president of the McKay Nursery Co., Madison, Wis., died April 16 at the age of 83. Although he had not been in good health for the past few years, he had headed the firm since about 1902. Prior to that time he had been associated with two brothers, P. J. and J. M. McKay, in a nursery at Waterloo, Wis., but with the death of one and the retirement of the other, he organized the present business and in 1915 moved the headquarters to Madison.

A native of Milwaukee county, Mr. McKay worked his way through business college and began a career as a machinist before joining his brothers. After the reorganization of the firm, the nursery expanded and eventually operated about 650 acres near Waterloo, a dairy and stock farm being supported along with nursery stock growing. The dairy farm was sold a few years ago, but the nursery ranks among the largest in the northwest. A branch office is maintained at Milwaukee, Wis.

Mr. McKay had been active in community welfare, religious and social groups. He was a federal jury commissioner more than 15 years and had served as a member of the state welfare board. For many years he was active in the American Association of Nurserymen and his state trade group and had been an honorary member of the Wisconsin Horticultural Society. After a long period of hospitalization in 1923, he started a practice of donating thousands of peony blooms to hospital patients each spring. He was also well known as the organizer of the Madison Curling Club.

Charles L. Gibbs

Charles L. Gibbs, owner of Gibbs Nurseries, Norfolk, Neb., died in a hospital there March 12 after a long illness. He was 79 years old. Survivors include the widow and a son, Clifford L. Gibbs.

Calvin D. Kinsman

Calvin D. Kinsman, 76, owner and operator of the Kinsman Nursery, Miami, Fla., died March 28. A member of the American Association of Nurserymen and the Southern Nurserymen's Association, he was also a former president of the nurserymen's group of the Florida State Florists' Association. He had been a resident

of Miami for about 25 years, going there from Austin, Minn. Survivors include the widow, May J. Kinsman; a daughter; a son, and two sisters.

W. H. de Graaff

W. H. de Graaff, Wassenaar, the Netherlands, father of Jan de Graaff, Oregon Bulb Farms, Gresham, Ore., died recently, having almost reached the age of 86. Until recently he had been a director of the de Graaff Bros. Co., Noordwyk, the Netherlands, and of the Spalding Bulb Co., Spalding, Lincolnshire, England. Besides his son Jan, Mr. de Graaff is survived by two daughters, one of whom is a teacher at Bryn Mawr, Pa., and seven grandchildren.

NURSERIES TRUCK "MAIL" TO CUT COSTS

Several large Iowa nurseries have started shipping nursery stock part way by private truck to a mailing point, in an attempt to curtail increasing shipping costs.

The Earl May Seed Co., Mount Arbor Nurseries, the Henry Field Seed Co. and Lakes Shenandoah Nurseries, all of Shenandoah, and the Inter-State Nurseries, Hamburg, are now mailing parcel-post shipments to the east and southeast through the Cincinnati, O., post office.

A private carrier furnishes semi-trailers for the operation. Each time a shipment is ready the trucks are sent to the shipping docks of the five companies to pick up east-bound packages.

Within about 30 hours the seeds and nursery items are in the Cincinnati post office, going through the process of distribution for delivery to points in the eastern and southeastern United States.

A spokesman for the nurseries said that they are saving about \$600 a truckload on postal charges alone from Shenandoah to Cincinnati. This figure will be much higher, he said, when presently planned parcel-post increases take effect.

The spokesman also predicted the nurseries will save several thousand dollars a year in damage avoided by reducing the number of times the nursery articles are handled.

Another advantage claimed is that two or three days will be clipped off the "in transit" times.

CORPORATE charter was issued recently to Wyoming Valley Nurseries, Inc., 2 Wheeling place, Wyoming, Pa. The incorporators are Edith M. Wheeler, A. Judson Evans and W. Carey Evans.

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Cushion Mums are the top-volume sellers—the best known of the garden types and most readily purchased at the nursery or garden center—spring and fall. Be prepared! Growers and suppliers who are not particular as to variety but want good quality-grown cushion varieties as to color only can purchase at a real saving by ordering at "Collection Prices," all correctly labeled as to variety; shipped when needed. Send for our color-illustrated brochure—it helps you sell.

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500 R.C.	\$ 27.50
1000 R.C.	52.50
2000 R.C.	100.00

(Minimum order, 500 rooted cuttings.)

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Norway Spruce, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.
Austrian Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.
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Scotch Pine, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

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12 to 15 ins. \$300.00
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18 to 24 ins. 450.00
Spruce, Pine, Juniper and shrubs. List Free!

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Brainerd, Minn.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

LANDSCAPE CONIFERS

Spruce, pine and fir seem to be casualties of the times. They have been penalized by the de-emphasis that has come to arborvitae, juniper and chamaecyparis. At least, there do not appear to be so many of them grown and offered as there were 20 years ago. There are other reasons than that, however, one being that the modern home style calls for more dwarf plants. Also, much less extensive landscaping is being done on large areas, particularly on estates. The trend to planting dwarf yews and the broad-leaved evergreens has also affected the planting of this other group. While broad-leaved evergreens are my favorite plants, I still think pines, spruces and firs are a most interesting group and deserve the fullest attention.

Another factor that has lessened the growing and sale of these plants is that their bulk and the method of handling them are not convenient in the compact nursery or garden center. They are much better handled in the landscape nursery with ample balls of soil.

Use Dwarf Forms

Perhaps the best way to give these plants wider use is to pay more attention to their dwarf forms and to re-evaluate the ways of using them in the landscape. A great deal more imagination is needed in using them.

The number of dwarf forms of these plants are few, but these few deserve some attention. The pines are nearly all giant forest trees, but a few have dwarf forms of note. *Pinus cembra* is a large-growing tree to 70 feet in its natural habitat, but it is so slow growing that it can be grown as a dwarf. I know of several I planted that are now 30 years old and only about 10 to 12 feet high, handsome, acorn-shaped plants; so, for the time lapse most gardeners consider, these can be used as dwarfs.

The well-known mugho pine is a widely used globular dwarf pine, suited to the cooler and drier sections of the country. It can be used in the border or even in the foundation. Several other pines, such as the white, red, Scotch and Austrian, occur in dwarf forms but may be diffi-

cult to obtain, although I have found dwarf ones among the Scotch pine raised from seed at my nursery.

There are also ecological dwarfs, those planted too far north or too high up on the mountainside to attain their height but surviving as dwarfs. This dwarfing is also true of plants planted in arid, sandy or windswept areas. Certain sections of the country can take advantage of this tendency, and such dwarfed or distorted plants are more picturesque. In Maryland, dwarfing occurs on the sandy beaches along the ocean front and, to a lesser extent, along the Chesapeake bay with the two native pines, *P. taeda* and *P. virginiana*.

The spruces also are giant forest trees, and while dwarf forms occur in the Norway and Oriental spruce, neither is interesting. The variety *conica* of the Alberta spruce is at-

tractive, precise and formal in shape. It is so formal in shape that it is hard to use, yet its shape is intriguing enough to make one try to use it somewhere, in a formal pair or as a little specimen to accent a spot in the border.

Among the firs there are probably no true dwarfs. The rare ones that occur are probably cripples. As forest trees they are even taller than the pines and spruces.

The tendency in the past has been to use these conifers as foundation plants in a dwarf form or as isolated specimens on the lawn in the fuller-growing forms. Better uses might be some of the following:

Instead of trying to use them as foundation plants, move them out 15 feet from the corners and thus frame the house at one or both ends. A difficult but attractive use, particularly of pines, is the planting of one to three relatively close together and close to the house so that they can grow up and tower over the ranch house. Although pines grow fast, there is an awkward period of five years when they appear misplaced. In such a situation, the lower limbs should be removed as soon as practical.

Firs and spruces, while handsome

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Red and White
2 to 3 ft., B&B, \$2.00 each, lots of 100.

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250,000 SCOTCH PINE

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\$30.00 per 1000

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as individuals, are not so attractive in the landscape as when they are planted in little groups of differing-sized plants, especially if they can be part of another feature, such as rocky terrain, a change of elevation or a water scene. Firs and spruces mix well in these groups; the lesser variations in texture are good. Pines offer contrast when planted with spruces or firs.

Pines tend to be less pyramidal; have open, flatter tops; are often picturesque, and tend to lose their lower limbs when they reach perhaps 25 years of age. They are ideal for larger border or windbreak plantings, and by manipulating the spacing, different effects can be produced. When closely planted they lose their lower limbs, so that it is possible to get shade from them and have an attractive vista beneath—a view out over water, for instance. When planted in spaced clumps, the inner trees lose their lower limbs, while the trees on the outside retain them longer, so that screening and windbreak effects can be obtained.

The pine more than the fir or spruce can be pruned or shaped to grow into an irregular, picturesque plant if desired. Conversely, by pinching back the new, soft, candle-like growth about half way in spring, compact plants can be formed.

THREE PYRAMID TREES

[Continued from page 9]

tral Japan and was introduced into the United States by Dr. George R. Hall about the beginning of the Civil War period.

One who has never read of Dr. Hall's experiences in China and Japan would find it well worth his time to indulge in a little of such reading. Richardson Wright describes Dr. Hall's activities most interestingly.

This is one of the few genera that include only one species. The tree does not become so tall or broad as either the Nordmann fir or moss falsecypress. A tree 25 or 30 feet high

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(Quercus palustris)

Per 100 Per 1000

6 to 12 ins.	\$ 6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
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2 to 3 ft.	17.00	140.00

BUR OAK

(Quercus macrocarpa)

2 to 3 ft.	17.00	140.00
3 to 4 ft.	22.00	190.00
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page 77, or write:

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The Fancy, Fruitful, Frugal

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Pfitzer Juniper
Andorra Juniper Each
 6 to 8 ins.\$0.05

Pfitzer Juniper
 6 to 10 ins.07
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Euonymus patens, small-leaved, 8 to 10 ins.04

Euonymus coloratus
 6 to 10 ins.04

Less than 300, total order, 2c more per plant. Less than 50 of any item, 4c more per plant. See classified under lining-out stock for other items.

McININCH GREENHOUSES
 St. Joseph, Mo.

PIN OAKS

(*Quercus palustris*)

	Per 10	Per 100
4 to 5 ft.	\$19.00	\$175.00
5 to 6 ft.	25.00	225.00
6 to 8 ft.	37.50	350.00
1 1/2 to 2-in. col.	65.00	600.00

See our seedling list in this issue.
 Also B&B material of excellent quality.
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Northern-Grown Liners
Christmas Tree Seedlings
Potted Evergreens

Send for price list.

JOHN G. ZELENKA EVERGREEN NURSERY
 Rt. 2, Grand Haven, Mich.

is a large plant in this country, although in Japan it is known to grow to 100 feet and more. A newly propagated tree takes a lifetime or longer to reach 30 feet in the United States.

The specimen pictured in illustration A is about 12 feet high, and is at least 25 years old. It is growing in a relatively open location but is fairly well protected from strong blasts of wind. Shelter from strong winds is recommended, but not deep shade. The tree becomes a bit spindly in shade, although it retains its good color. This species does not grow old gracefully; it may in time develop a narrow crown or competing leaders. There is evidence of the latter in illustration A, even though the specimen has good density.

Hardiness of Umbrella Pine

Just how hardy is *Sciadopitys verticillata*? Hardiness is difficult to determine precisely, because survival is dependent not alone on temperature but also on wind, summer rains, soil drainage, organic matter, fall rains, root competition and other factors. The plant illustrated is growing at East Lansing, Mich., and has been for a number of years, but does better in soils that have better drainage.

It is doubtful if this unusual species should be planted in any location where temperatures consistently dip lower than 10 degrees below zero each winter, although even with these temperatures it will grow well if the other factors are favorable.

The Nordmann or Caucasian fir (*Abies nordmanniana*) is one of the better firs for ornamental plantings because of its rich, dark green foliage. It becomes doubly attractive in the spring, when the new, bright, light green leaves are formed to contrast with the dark green of last year's leaves. The finest specimens that I know of, and there are several, are located in the W. Bayard Cutting Arboretum, Oakdale, L. I., N. Y., which is administered by the Long Island park commission. The heights are well over 75 feet.

The needles on 1-year twigs are a pleasing green, with prominent white bands on the undersides. The upper needles, those on the top of the branch, are directed toward the growing tip and lie somewhat close to the twig, whereas the straighter-growing needles on the underside of the branch give it a comb-like appearance.

This species, with needles one inch to one and one-half inches long, was introduced into cultivation just before the middle part of the 19th

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(Plant Pat. No. 1392)

A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.9. Suggested retail, \$2.50.

PINK FRAGRANCE

(Plant Pat. No. 1493). A. R. S. 1958, 7.6. A many-petaled pink rose with outstanding lustrous foliage. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
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Each 250 and up, \$1.10

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REMEMBER SHERMAN'S for ...

Alpine Currant
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Let us quote you on your requirements.

SHERMAN NURSERY CO.
 CHARLES CITY, IA.

"BLUE FOUNTAIN WILLOW"

(*Salix purpurea pendula*)

Weeping form of the beautiful Blue-Leaved Arctic Willow. Interesting ground cover for moist banks. Grows with a graceful downward sweep. Branches root where they touch ground. Maximum height, 10 to 12 inches.

Pot plant liners only, late spring.
 \$7.50 per 10; \$50.00 per 100.

BEARDSLEE NURSERY Perry, Ohio

EUONYMUS RADICANS ERECTUS

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century. It is hardy in most sections of zone 4, where temperatures dip to 20 degrees below zero. Its reddish-brown cones, four and one-half to six inches long, are borne upright on the top surface of the branch, in the same manner as the cones of other true firs.

Branches Droop with Age

The branching is at first horizontal, but after several years the branches droop decidedly, bending up again at the tips. The lower branches of the specimens mentioned at the W. Bayard Cutting Arboretum lie right on the ground and many a person has lifted these branches to see if they have rooted. No, they have not.

The Nordmann fir shown in illustration B is about 30 feet in height, and the picture was taken at Planting Fields, the former W. R. Coe estate, Oyster Bay, L. I. The lower branches of this specimen also are on the ground. As long as there is sufficient sunlight and the caretaker does not become overly ambitious with his pruning saws, the lower branches remain intact.

This good fir was named after Alexander Nordmann, who was a Finnish botanist of the 19th century. There is no difficulty in purchasing it, apparently. I observed it listed in at least a dozen nursery catalogs from Delaware, New York, Michigan, California and Massachusetts.

This fir differs from all other firs, except the lesser-known *Abies cilicica* and *A. alba*, in that the brownish winter buds are without resin. It makes a fine permanent Christmas tree for a local courthouse or school where it may be decorated each year.

There are two variations, the golden Nordmann fir (*Abies n. aurea*), which I have never seen, and the twist-leaved Nordmann fir (*Abies n. tortifolia*), which existed as a fine specimen at the W. Bayard Cutting Arboretum. The leaves were twisted and scythelike and looked almost as though someone had been spraying too near with a weed killer.

Moss Falsecypress

The moss falsecypress (*Chamaecyparis pisifera squarrosa*) can grow to much greater heights than most people realize. The specimen in illustration C is about 50 feet high and is as fine an example as one will ever see. The picture was taken at the Cutting Arboretum. There is a ruggedness to the bark of this tree, as may be seen in illustra-

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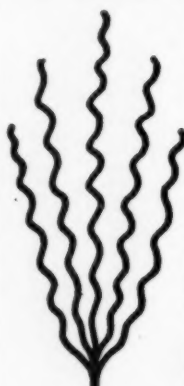
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Wayside Gardens

tion D, and a distinct reddish-orange coloration makes the tree trunk even more interesting.

The moss falsecypress was at one time used extensively in foundation plantings and kept restrained during its early years. Eventually, however, specimens used in this way had to be removed because of outgrowing their position or purpose.

This tree is generally regarded as having only juvenile foliage (needle-like leaves), but once in a while a branch appears with mature scale-like leaves and causes a bit of controversy. There is nothing unusual about such a happening; it is a natural thing for the tree to do.

There are several clones and variations of *Chamaecyparis p. squarrosa*. Two clones include Sulphur moss falsecypress (*C. p. s. Sulphurea*), which has, as one might expect, a light yellow coloration to the foliage, and the Gray Moss falsecypress (*C. p. s. Veitchii*), described by its common name. Such dwarf types as *C. p. s. nana* and *pygmaea* are listed as well as the light grayish-blue *C. p. s. argentea*. *Chamaecyparis pisifera squarrosa* *Cyano-viridis* is also available in the trade.

Where should one use such plants? This is extremely difficult to answer, but I can visualize such a plant in sandy and arid surroundings, or used for an extreme contrast to attract attention to a particular spot. There is no doubt that it would claim the attention of an observer. All plans have their place, but such plants as the sulphur form mentioned and others comparable to it require the imagination of an artistic mind for effective integration in the landscape.

FOREST SEEDS IN EAST

Forest tree seed crops in 1958 were considerably better than those in 1957 in New England, according to observers, reports the northeastern forest experiment station; however, heavy and medium seed crops of some species were spotty in occurrence. Late spring frosts were probably responsible for poor or failing crops of some species in Vermont, New Hampshire and northwestern Connecticut. Cone weevils were reported damaging the white pine crop in southwestern Maine, southern New Hampshire and central and northwestern Massachusetts. Insects also damaged seed of white spruce in northern Maine, balsam fir in south-central Maine, and hemlock locally in south-central Connecticut.

In general, most conifers produced

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heavy to medium seed crops. White pine bore a heavy crop generally over Maine (medium in the south-western part due to cone weevil). Elsewhere in New England, the white pine crop was spotty. Production was heavy in parts of northern Vermont, Massachusetts and Rhode Island and light to very light in Connecticut and New Hampshire. Failures were noted in northern New Hampshire and central Vermont. Red pine had a medium crop in parts of Maine and Connecticut and light to a failure in other areas.

White spruce and balsam fir seed production was medium to heavy in Maine. Fir had a medium crop in Vermont and northern Massachusetts. Red spruce was spotty throughout the region. Eastern hemlock was heavy in most of Massachusetts, Connecticut and in northern New Hampshire, but was spotty in the rest of New England.

Northern white cedar crops were spotty. The crop of eastern red cedar seed was heavy in Connecticut and medium in southern Vermont.

Among hardwood species, the red and sugar maples bore heavy crops in all states. Birch seed crops were also variable.

NORTH JERSEY MEETINGS

The April 16 meeting of the North Jersey Metropolitan Nurserymen's Association was presided over by Edward Wyckoff, Red Spade Nursery, Morristown, N. J., who had been elected to office at the previous meeting of the group at the Peacock House, Mountainview, N. J., March 19. Also elected at that session were Kurt Meyer, Hackettstown Nursery, Hackettstown, N. J., vice-president; Engel Zegers, Zegers Nursery, Wayne, N. J., treasurer, and Robert S. Weber, ABC Nursery, Inc., Dover, N. J., secretary.

Executive committee members now serving the group include Harrison Pfizenmoyer, Caldwell, N. J., and Paul Leutner, Demarest, N. J.

Several landscape associates were elected to membership at the April meeting. Plans for the picnic at Hackettstown August 20 were approved, and a summer trip was discussed. Committees were set up. No meeting was scheduled for May.

R. S. Weber, Sec'y.

X. S. SMITH, formerly executive in charge of the Florist Cloth Division of American Associated Companies, Red Bank, N. J., has acquired assets of the latter firm and will in the future do business as X. S. Smith, Inc.

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PLANT NOTES HERE AND THERE

By C. W. Wood

Meadow Beauty

Meadow beauty, or deer grass, is a genus of herbs in a family that is otherwise almost entirely composed of woody plants in the tropics. Its generic name, *rhexia*, comes from the Greek, meaning rupture, because of its real or supposed virtues in cases of rupture. The genus is composed of 10 or more species, all native in North America, but only three or four of them have appeared in gardens to any extent. And all have proved to be rather stubborn performers in my experience. I suppose, though, that I should consider myself lucky to have flowered any of them in this dry garden. Actually, I was never successful with them except in pots, where their moisture needs were supplied with care.

All the kinds known in gardens are bog or stream bank plants, often found just at the water line. One observer in New England, where *Rhexia virginica* is found, tells me that it is usually found there along stream and pond banks almost at the water line, where a change in water level may find the entire planting destroyed by being covered with water all summer or dried out if the level goes down.

That they do need constant moisture is apparent to all who have tried to grow the plants, but I suspect that a clay soil would carry them through dry periods that would mean disaster in sand. Judging from my experiments, they all want an acid soil, too, for permanent success. Some of the floras, which give habitats as wet pine barrens, would also indicate they are acid lovers. However, one Long Island correspondent says he grows both *R. mariana* and *R. virginica* along his stream in neutral soil. So, it may be that acidity is not a part of the plants' needs. They need moisture, though, and if one has that to offer he could probably succeed with these intriguing plants.

If I were to make a commercial venture of them I should stick to the two kinds, *R. mariana* and *R. virginica*, I believe, with preference for the last named if only one was to be grown. The angled stems of *R. virginica* grow to about a foot tall; are clothed in ovate leaves; are usually round at the base, and produce curiously spurred 4-petaled,

red-purple flowers in clusters from early summer (July) to September. Individual flowers last a long time. The other, the Maryland meadow beauty, *R. mariana*, has round stems that grow a little taller than virginica's, and its reddish-purple flowers are paler in color and slightly smaller. It blooms over the same long season. Seeds sown on granulated sphagnum and frozen come readily, and the plants are not too delicate.

Siberian Irises for Cutting

An Indiana correspondent who is working to broaden his local cut flower sales asks if Siberian irises would be a suitable item to add to his line.

Not all irises are good for cutting,

as most know, and perhaps not all Siberians are either, but I have never cultivated one that did not cut well and last for a long time in presentable condition. The seller of cut flowers who grows his own stock is well advised, I believe, when he is told to investigate the Siberian irises.

To grow really good Siberians, treat them liberally. They should be planted deep; forget about the shallow planting of the tall, bearded kinds. The Siberian is a shallow-rooted species and should be put in well over the apparent crown, in a rich soil. It also should be supplied with moisture during dry periods if good flowers on long stems are wanted. It will do fairly well, however, in any ordinary garden soil with



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the usual amount of moisture, but one should not expect 4-foot stems on the varieties Caesar, Caesar's Brother and Gatineau nor 5-foot stems on White Dove.

Siberians are now available in white, various shades of blue, combinations of these two colors, purple and near-red. For cut-flower purposes at the present time, considering cost of planting stock, I can think of nothing better than Snow Queen and White Dove in the white group, Caesar in dark blue, Gatineau in medium blue and Eric the Red in its class. This leaves out some outstanding newer kinds that are rather high in price for cutting unless one has a discriminating clientele that will pay a premium for the best. If one has that kind of trade, it might pay him to look at Congo Drums, a deep purple; Snowcrest, a slightly ruffled, snow white, and Tycoon, the largest Siberian to date that I have seen, a deep violet-blue.

Vernal Iris

This is a lovely, small, southern iris of the beardless section that should find a ready welcome from all earnest gardeners who can see beyond the flamboyant chrysanthemums, day lilies and phloxes. One will no doubt take it from the preceding sentence that my present plant is not eye-arresting and he will not be far wrong in that assumption if he means flashy colors. But he will be far wrong if he thinks it has no eye appeal to those who appreciate quiet beauty. Stephen Hamblin once expressed it well when he wrote that "the appeal of different flowers comes in various ways, but the flowers of Iris verna catch the eye by the contrast of the deep orange-yellow throat and the clear lavender petals." So far as I am concerned that is only partly true, for, in addition to that pleasing contrast, there is the restrained growth, as compared to the spreading habit of *I. cristata*, and the shape of its pert, little, beardless, fragrant blossoms.

It seems to have the reputation in some quarters of being a sulker, a circumstance probably caused by misunderstanding of its cultural needs when it first caught the attention of American gardeners. Thus, I find Mrs. Wilder remarking that it "has finally flowered here freely after many trails with it in the old garden where it simply sat and sulked." That was probably the experience of others; certainly, it was with me until I learned that it felt more at home in my climate, at least, if given light shade and a humus-filled soil of neutral or slightly

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acid reaction. If there was to be any preference, I suspect it would be for slight acidity. Although I found some stock from the southern part of its range (Tennessee), to be a little tender for northern Michigan, that from West Virginia and Kentucky should be hardy anywhere in the country. Chapman's "Flora of the Southern United States" says that it is found on "Pine barrens of the middle districts, mostly in dry soils, Alabama to North Carolina." That would tell me that some acidity would be essential.

Correspondents in the south tell me it is quite evergreen there; here it was only partly so, generally losing its leaves during the alternate freezings and thawings after the snow left. But that did not hinder the early (late April or May, depending upon the season and exposure of plants) development of its 3-inch flower stems, bearing usually one lovely lavender flower with a brilliant yellow line along the falls. And one should not omit its delightful fragrance, an unlooked-for premium in a race of generally inodorous plants.

Hosta Plantaginea

The common plantain lily of old-time gardens, which is Hosta plantaginea of botanists, was apparently much better appreciated by the older gardeners, both for garden ornamentation and for cutting, than it is today. We are thereby missing a worthy plant—one that should serve retailers well because of its sales appeal and customers by its blooming period and general good behavior.

The genus hosta is much confused in gardens and, as a consequence, one is likely to find the present plant under any of several names, including Funkia cordata, F. subcordata, F. japonica, F. grandiflora, and the one used here, which is the present accepted form, I believe. Under whatever name it may appear, the plant may be recognized by its broad, heart-shaped, sharp-pointed leaves on long petioles, forming clumps to 18 inches in height, and by clusters of large, white flowers, four to five inches in length and funnelform, bearing the odor of orange blossoms.

This is a plant that will amply repay the gardener for extra expense of giving it a deep, rich soil. It may, perhaps, do best in some shade, but if it is given a soil rich in humus, especially in well-rotted manure, and a mulch of frequent shallow cultivation, it will do well in full sun. It is usually propagated by division of the stools, and that will probably satisfy all ordinary demands, but it

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may also be grown, without trouble, from seeds sown in an outdoor bed as soon as ripe.

Solidago Tenuifolia

I always hesitate, and often finally omit, to mention any goldenrod in this column, largely because many of them are too weedy for garden use. Once in a while, though, I find one that demands my attention, even though it might prove troublesome under certain conditions. Then, there are some that are so variable that I find weeds and good ornaments within the same species. In fact, I watched four different forms of the species which heads this note for several years in the garden of a friend that were a revelation in their variability and a reminder that even a goldenrod can serve the ornamental gardener well. Of the four forms, only one, without varietal name so far as I know, was of any great garden value. It made a little bush about 15 inches tall and almost as much across, clothed in small, narrow leaves, giving it a graceful appearance when out of flower. It was a real spectacle when it was covered all over with tiny, yellow flowers, giving it the appearance of a double, yellow baby's-breath. In fact, I think that is what its owner called it. I know nothing about its origin, except that she said she grew it from seeds obtained from an eastern dealer in native plants. I regret that the garden is no longer in existence, nor is the owner, but I think I could direct interested growers to a source for seeds.

Monarda Granite Pink

An Ohio reader asks for an appraisal of Monarda granite pink. I am glad to give it, but wish to point out that these are my own personal impressions and do not carry the weight of authority. First, let me set down a paragraph from my fall of 1957 notebook, after the plant had been under test during that year:

"There seems to be an opinion

PERFECT PACKING FOR PLANTS

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- Kiln Dried
- Fine Enough to Protect
- Small Roots
- Clean

- Wire-Tied Bales
- Excellent Moisture Retention
- No Fungus

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Per 10 Per 100

Crape Myrtle, pink, purple, red		
18 to 24 ins.	\$4.50	\$40.00
2 to 3 ft.	5.50	50.00
Deutzia crenata		
2 to 3 ft.	3.00	25.00
Euonymus alatus		
18 to 24 ins.	6.00	50.00
2 to 3 ft.	8.50	75.00
Forsythia spectabilis		
3 to 4 ft.	4.00	35.00
4 to 5 ft.	5.00	45.00
Forsythia Spring Glory		
18 to 24 ins.	3.00	25.00
2 to 3 ft.	4.00	35.00
Snowberry		
2 to 3 ft.	3.00	25.00
3 to 4 ft.	3.50	30.00
Spiraea thunbergi		
18 to 24 ins.	3.50	30.00
Weigela rosea		
2 to 3 ft.	3.00	25.00
Willow, Dwarf Blue Arctic		
2 to 3 ft.	4.00	35.00

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McMinnville, Tenn.

abroad among gardeners, perhaps based on what was written about variety salmonea when it was introduced many years ago, that pink-flowered kinds need more moisture than ordinary Monarda didyma forms. But that cannot be true of all pinks, for I have the new Granite Pink growing in shade in one of the driest parts of the garden, and it has behaved well so far on natural precipitation. When the plants came last spring, I thought it would be just another pink bee balm. It is another pink monarda, of course, and it is more than that, but its large heads are of rose-pink flowers, not purplish as rose-pinks sometimes are, and certainly not having a suggestion of red as rose sometimes implies, just clear rose-pink. And it has all the other good points of M. didyma varieties."

The foregoing note was written before I knew that Granite Pink was supposed to be dwarf. As it grew here it became as tall as most other varieties tested in my trials. No one seems to know why it changed from the dwarf it is said to have been when the Vermont experiment station introduced it, but that fact seems to have caused the specialists who were first enthusiastic about it to drop the plant. If one likes bee balms tall or even medium tall, he will not be disappointed by it; if he is looking for a dwarf, he should look elsewhere.

Japanese Iris Hisakata

If one is becoming interested in Japanese irises or if they are now a part of one's operations and he does not have variety Hisakata, one is well advised, I believe, when he is told to give it a trial. It was my privilege to observe it during the past two summers in a large collection of modern varieties, and I am sure it was the outstanding one in bloom at the time. Immense flowers (at least 10 inches across), with the all-over impression of being dark blue in color, set off by bright yellow signals at the center, are produced on stout stems, to a height of four feet or more, late in the Japanese iris season. One can easily imagine what an impressive picture that would make.

Centranthus Ruber

It is amazing to this observer of the horticultural scene that American gardeners are just commencing to appreciate the red valerian, Centranthus ruber. Being a native of Europe, where ornamental gardening in the western world had its origin, it early gained the attention of the budding gardeners of that continent and was later brought to this coun-



AARS winners and
138 other popular
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Beautiful shade, productive too! Prolific varieties. Sizes 1 1/4 to 12 feet. In attractive packages or bare roots. Get stock list and prices.

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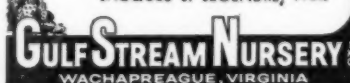
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Each	
18 to 24 ins.	\$0.45
2 to 3 ft.55

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(Pyrus calleryana)

WHITEROCK NURSERIES

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Crockett, Tex.

try, where it has more or less languished through the years and just now seems to be catching the public eye again. That is as it should be, for its many good points—ease of culture, pretty foliage and clusters of attractive, red fragrant flowers, on stems to two feet or more in height, through much of the summer—deserve recognition. It should be grown in sun or part shade and in ordinary garden soil.

CHERRY FUNGUS CONTROL

A new fungicide, Cyprex, produced by the American Cyanamid Co., showed promise for the control of cherry leaf spot in experiments conducted at Shelby, Mich., in 1956 and 1957 by Michigan State University, East Lansing. In the experiments, reported by Donald Cation, M. S. U., in the Plant Disease Reporter, volume 41, No. 12, several formulations were applied to Montmorency cherry trees in three preharvest sprays plus a final spray applied soon after harvest. The number of leaves held or lost by treated trees in October was taken as an indication of the relative effectiveness of the different treatments in the control of leaf spot.

In the 1956 tests, defoliation counts taken in October showed that Cyprex and Glyodin-ferbam sprays were far more effective than the other materials tested. While unsprayed trees were completely defoliated by the fungus, trees sprayed with Cyprex at the rate of one pound to 100 gallons of water had only three leaves missing from each 100 spurs. The combination of one and one-half pints of Glyodin and one-half pound of ferbam to 100 gallons held defoliation to four leaves in each 100 spurs.

In 1957 light infection was established before the first spray was applied, and excessive rains, occurring between the third spray (June 18) and the fourth spray (August 8), reduced protective residue and made conditions ideal for an increase of the disease. Under these severe conditions, Cyprex held terminal defoliation to 3.3 per cent when applied at the rate of one pound to 100 gallons. Even when the dosage was reduced to one-half pound, defoliation was only 5.4 per cent, compared to defoliation figures ranging from 40 per cent to 67 per cent for the other materials tested.

OPENED recently was the self-service Green Dollar Nursery, at 11801 Harbor boulevard, Santa Ana, Calif., by Rhiney Kwast and Ken Clifford.

DWARF FRUIT TREES

Apples

	Per 10	Per 100
250 Red Delicious, Malling II, 2-yr., 9/16-in. cal.	\$1.60	\$130.00
50 Cortland, Malling IX, 2-yr., 9/16-in. cal.	1.60	130.00
50 Northern Spy, Malling I, 2-yr., 9/16-in. cal.	1.60	130.00
50 Northern Spy, Malling II, 2-yr., 9/16-in. cal.	1.60	130.00
50 Yellow Delicious, Malling IX, 2-yr., 9/16-in. cal.	1.60	130.00

Cherries

	Per 10	Per 100
100 Meteor, 1-yr., 11/16-in. cal.	1.50	125.00
100 North Star, 1-yr., 11/16-in. cal.	1.50	125.00
50 Windsor, 1-yr., 11/16-in. cal.	1.15	95.00
50 Emperor Francis, 1-yr., 11/16-in. cal.	1.15	95.00
50 Black Tartarian, 1-yr., 11/16-in. cal.	1.15	95.00

ORNAMENTALS

	Each
50 White Clump Birch, 2 stems, 2 to 3 ft.	\$1.15
50 Cut-leaved Weeping Birch, 2-yr., 4 to 5 ft.	1.75
50 Prunus tomentosa (Nanking Cherry), 2 to 3 ft.	.50
50 Prunus tomentosa (Nanking Cherry), 18 to 24 ins.	.30
30 Mountain Ash, European, 5 to 6 ft.	1.75
30 Weeping Willow, babylonica, 6 to 8 ft.	1.30

50 trees at 100 rate.

All stock hardy, northern-grown.

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(Including Minnesota and Louisiana)

2 1/4" pot **2¢** 3" pot **4¢** 2 1/4" pot **1¢** 3" pot **2¢**



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LOS ANGELES CHAPTER

The April 22 meeting of the Los Angeles chapter of the California Association of Nurserymen was held in the Garden room at Knott's Berry Farm, Buena Park. Sixty-three members and guests were present for the fifth annual ladies' night, when President Harold J. Botts, Botts Nursery, Anaheim, called the meeting to order.

The meeting was turned over to Mrs. Molly Botts, who introduced those seated with her and her husband at the head table: Mr. and Mrs. Chuck Vogels, Chuck's Nursery, Covina, and Harold Prill, educational service director, Southern Counties Gas Co., and Mrs. Prill. Mrs. Winnie Meadows, wife of Secretary Dick Meadows, Taylor-Dunn Mfg. Co., Orange, introduced other guests.

The table centerpieces were designed by Mrs. Verona Weeks, Weeks Wholesale Rose Grower, Ontario, and featured Sterling Silver roses with carnations in large bouquets under umbrellas to carry out the theme of April showers. Small handkerchief umbrellas were the favors for the ladies.

Mrs. Virginia Vogels, wife of Chuck Vogels, program chairman, introduced the speaker of the evening, Mr. Prill, who, in addition to his duties with the Southern Counties Gas Co., is president of the Laguna Playhouse and for many years has been a speech teacher in southern California schools.

Dick Meadows, Sec'y.

SAN FERNANDO CHAPTER

The April 8 meeting of the San Fernando Valley chapter of the California Association of Nurserymen was held at Palmdale, where the membership meets once a year during the city's lilac season. James E. Harris, Palmdale Nurseries, Palmdale, was chairman of the meeting.

James C. Perry, president, C. A. N., speaker of the evening, informed the group that Governor Pat Brown had endorsed the program of "Plant California" without any reservations and that the letter can be used in the promotion program. Mr. Perry also said that the majority of a new bud-

get increase for the coming year will be used for promotional work and commented on the success of the Can-Can Carnival program, which had just closed.

The next meeting of the chapter will be held at 1 p.m., June 11 at the State Arboretum, Arcadia.

Paul Lombard, Sec'y.

TRI-COUNTY CHAPTER

Thirty-eight members were present at the March 20 meeting of the Tri-County chapter of the California Association of Nurserymen, held at the Miramar hotel, Santa Barbara. The meeting was called to order by Mrs. Ruth Curtiss, president, after which reports were given on the

progress of the Can-Can Carnival.

Walter Barrows, Griffin & Morgan, Santa Barbara, secretary-treasurer of the chapter, was elected to the office of chapter director to replace Harry Stribling, Kallman's Garden Nursery, Santa Barbara, who retired from business and became ineligible to represent the chapter at the C. A. N. state board of directors' meeting scheduled for March 31 at Carmel.

The chapter voted to have Director Barrows make an effort to work on the problems of obtaining a stronger nursery license at the state board of directors' meeting.

Application for membership by Rex Hardware was approved by the chapter before Bud Lee, of the Ventura county farm adviser's office, the guest speaker, was introduced. Mr. Lee showed slides and commented on the various characteristics of pathological diseases in ornamental plants.

At a board of directors' meeting held March 26 in the home of Mr. and Mrs. Ralph Curtiss, Ventura,

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Shaddo

From the color to the contents I hear *Tops in Roses* is "putting on the dog" with that new 1959-60 list!

I'd like to have a copy, please, so I can "bone up" on the varieties available.

I'm usually "dog tired" after a day at the nursery, but, so help me, I'm going to get my order in early this year!

If you haven't seen it, you should—it's lovely, it's lavender and it's lavish with interesting names!

Names of what? *TOPS IN ROSES, that's what!*

May we send you one?



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the chapter's membership policies were discussed, and the group instructed Director Barrows to bring up the topic of insurance at the state board of directors' meeting.

Walter Barrows, Sec'y.

SAN DIEGO CHAPTER

At a meeting of the board of directors of the San Diego chapter, California Association of Nurserymen, held April 9 at the home of Walter Andersen, San Diego, President Phillip Seeman appointed Charles Dibb, F. W. James & Son, National City, to take charge of distributing the chapter's car mats. A motion was made and passed to discontinue the special cash prizes awarded at the regular dinner meetings.

Alfred Harutunian offered to suggest to the city beautification committee, of which he is a member, that it appoint a representative to discuss with Walter Andersen, the impracticability of the current tree planting specifications for business



areas, which indicate a minimum cost of \$215 for planting a \$15 tree.

Mrs. R. C. Jensen announced that many of the chapter members were much pleased with the results of the group advertisement that appeared in April in conjunction with the Can-Can Carnival. It was agreed that the group advertisement for May should feature the slogan "Look for the C. A. N. Emblem and You'll Find a Quality Nursery." Before the meeting was adjourned, President

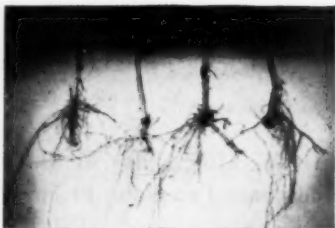
Seeman appointed Mr. Dibb county fair coordinator.

Speaker at the March dinner meeting of the chapter, held at the Lafayette hotel, San Diego, was Dr. Leo Heushele, chief veterinarian at the San Diego zoo. He presented an interesting illustrated talk on the problems involved in his job of keeping valuable zoo animals in good health.

Mrs. R. C. Jensen then displayed a copy of the chapter's group adver-

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EM II



EM VII



EM IX



\$70.00 to \$115.00 per 1000
according to size.

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Crimson King Maple (Pat. No. 735)
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tisement scheduled to appear in early April. She also read a letter from Germain's, San Diego, announcing that the firm's advertising on the April 2 "Queen for a Day" program would feature a complete garden for the chosen queen, with trees and shrubs donated by the C. A. N. and roses, seeds and garden supplies from Germain's. Ada L. Perry, Sec'y.

CENTRAL CHAPTER

The April 14 meeting of the Central chapter of the California Association of Nurserymen was held at the Sea Wolf, on the Oakland waterfront, with 59 members present.

Past President Bert Bertolero introduced his guest, Joaquin Mencos, of the ministry of agriculture in Spain. Mr. Mencos is in the United States to learn of fruit tree propagation methods. When he returns to Barcelona, Spain, he will direct the planting and care of 75,000 acres of trees in a newly developed area.

Howard Burr, Burr-Christian Nursery, Hayward, a director of the chapter, presented a new uniform for nursery salespersons in the area and gave details on how to obtain it.

The speaker of the evening was a C. A. N. past president, Ray Hartman, Leonard Coates Nurseries, Inc., San Jose, who told of experiences in over 50 years in the nursery business. Mr. Hartman showed slides of a trip to Hawaii and presented a picture showing native California flowering shrubs.

Larry C. Basker, Sec'y.

CALIFORNIA ARBORISTS

The California Arborists' Association met at Redwood City, Calif., April 15 with a large attendance. Frank Nolan, Nolan Tree Service, Palo Alto, began the meeting by showing a series of colored slides of a recent trip he and Mrs. Nolan took by trailer. For the benefit of the arborists he limited his showing largely to slides of trees and other interesting horticultural sights between California and Florida via the Gulf coast states.

During the business session it was decided to request the newly formed Foothill College, a state university on the 2-year level that is to service the southern part of the San Francisco peninsula, to offer courses in horticulture with special emphasis on the problems of the arborist, including refresher courses for the practicing tree men and fundamental courses that would help to train future arborists. A project of the asso-

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Northern California Grown Dormant Roses
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ciation is to develop ways of getting interested men to enter the profession. A revision of the association's mailing list was discussed.

Presented during the evening was the final draft of the tree-pruning specifications that were drawn up under the direction of the president, Sylvester Evans, district landscape architect for the California state division of highways. Mr. Evans drew up three sets of specifications for tree renovation work, including one for a complete job, another for a rather good job and a third for a superficial job to be used when price seems to be of prime importance to the client. Such specifications, it is felt by the membership, would serve as a guide in making bids or estimates.

Mr. Evans acknowledged the valuable aid he received from many of the members, including Leslie Mayne, Mayne Tree Service, San Mateo; Keith Davey, Davey Tree Service, San Francisco, and John Davis, Davis Tree Service, Menlo Park. The board of governors of the association read the specifications as offered, and the group accepted the recommendations, subject to changes after a trial period of approximately one year.

A request for bids received from a government agency for some extensive tree renovation work was discussed by the members. The request had been carefully worked out, and a plot of the grounds had been drawn to scale, with each tree needing care marked and numbered. Detailed information was given as to the work that was to be done on each tree, and it was requested that a lump bid or estimate be submitted. One of the arborists had been asked to make estimates and reported that he found the work so poorly planned that it was impossible for him to make a bid conscientiously. It was decided that a committee composed of Mr. Evans, Mr. Davis and one other member meet with the officials of the agency, to explain the situation and request that the arborists be allowed to resurvey the job, draw up the specifications and then have the requests for bids rewritten and resubmitted to interested arborists and tree surgeons. W. B. B.

TICKET BONUS ATTRACTS

The McDonnell Nursery, Oakland, Calif., used a simple promotion tying in with the California spring garden and home show to bring a great many customers into its store before the show.

The week before the show, tickets

POT UP MINIATURE ROSES NOW

For Summer and Fall Sales



DIAN Rose growing in 7-in. pot
—Just 5 months from 2 1/4-in.
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Rose **DIAN**
in 6 or 8-in. pots
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Blooms when
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All Plants from 2 1/4-in. pots

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*DIAN—bright pink-red	\$0.60
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OAKINGTON RUBY—double red30
*RED IMP—small, bright red50
*BOBOLINK—new, rose-red50
YELLOW	
*BIT O' SUNSHINE—buttercup	1.00
PINK	
MARY HAYWOOD— bright pink .....	.50
PINK JOY—fragrant pink .....	.35
WHITE	
*POLKA DOT—ivory-white .....	.40
WHITE FAIRY—double white .....	.35
WHITE ASTER—pink tint .....	.50
CLIMBING MINIATURES	
*MAGIC WAND—red .....	.80
JACKIE—soft yellow .....	.80
FAIRY PRINCESS—salmon .....	.60
BABY JAYNE—pink .....	.50
*PINK CAMEO—pink .....	.80
*Best pot varieties.	

PINK FAIRY (The Fairy)—Very double soft pink
in clusters. Vigorous, hardy, free-flowering.
For pot—landscape—borders. We grow many
thousands of this hardy little rose — good
everywhere. From 2 1/4-in. pots.

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Visalia, Calif.

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SHADE and FLOWERING TREES
FRUIT TREE SEEDLINGS
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DECIDUOUS SHRUBS
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PORTLAND ROSES
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This, our 51st season, has been
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The story of the Malling Apple root-
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cessors, the M. M.'s 104, 106, 109, 111
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1958 Handbook of

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Pink Peace

Write for list and prices.

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Our 81st Year

MILTON-FREEWATER, ORE.

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Our combination carlots for eastern distributing points during shipping season save freight costs.

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Fine-quality, two-year plants budded on Multiflora in over 250 varieties.



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May we quote you?

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QUALITY LINERS

Write for our catalog listing over 450 varieties.
See our ad in the March 16 issue, on page 27.

MITSCH NURSERY

Aurora, Ore.

which cost \$1 at the event were available at nurseries for 75 cents. In a few advertisements in the local newspaper, McDonnell's offered for 75 cents a ticket to the garden show plus a small plant. Subsequently, 1,250 of these plants, of which McDonnell's had an abundance, were given away with tickets. Approximately 600 customers came into the store as a result, and much additional interest in the garden show was created.

R. B. K.

CALIFORNIA NOTES

Rod M. LaMontagne is opening a nursery in the Ladera shopping center at Menlo Park. This is one of the centers established by Stanford University in one of the subdivisions of its 1,600-acre farm. The nursery will be known as "The House Without Bounds." In connection with it, but in separate buildings, there will be a flower shop, a gift shop, a garden furniture and barbecue unit and possibly other associated lines. Each unit will be managed by a person experienced in his work and all will be under the merchandising supervision of Mr. LaMontagne.

The annual rhododendron show at Union square, San Francisco, was staged the week of March 20. It is sponsored by the Downtown Association and is the signal for the arrival of spring in the city. The plants, many of them 10 or more years old and growing in gigantic tubs, are kept in Golden Gate park between shows and are brought to Union square when they are at their peak.

Albert Wilson, bay area garden commentator on radio and TV and author of books on gardening, has two radio gardening shows this spring, over different broadcasting systems and with different sponsors.

The Association of Agricultural Commissioners held its annual meeting at Santa Barbara May 4 to 7. This meeting is attended by nearly all of the agricultural commissioners and many of their deputies and other assistants.

The Santa Clara Valley African Violet Club held its first show April 17 and 18. It is planned that it be an annual affair.

The Peninsula Bonsai Club held its fifth annual bonsai gardening exhibit April 18 and 19, at Palo Alto. More than 200 specimens were shown, some of them over 50 years old. This club's members are said to have one of the best collections on this side of the Pacific ocean.

Bay area flower growers and nurserymen have been warned that further failure to observe the regulations

MINIATURE ROSES

FROM 2¼-IN. POTS UN-
LESS NOTED OTHERWISE
• NO PACKING CHARGE •

RED—		Each
Dian (Pat. App. For). Double, light red. Fragrant.		\$0.60
Best variety for florist pot plant. We think Dian the best all-around miniature available to date!		
Little Buckaroo (Pat. 1726). Velvety red.		.50
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Thumbelina. Small, bright red.		.35
Oakington Ruby. Double, red.		.30
Red Imp (Pat. 1032). Vivid red. Good pot rose.		.50
Westmont (Pat. R.R.). Bright red.		.60
Bobolink (Pat. R.R.). New. Full, double, rose-red.		.50
PINK—		
Pink Joy (Pat. 1378). Fragrant pink.		.35
Rosa Rouletti. Pink.		.35
Pink Fairy. Double, pink. Very hardy.		.35
YELLOW— Sold Out—All varieties		
Bit O' Sunshine—Ready after June 1. (Pat. 1631). Buttercup-yellow.		1.00
WHITE—		
Cinderella (Pat. 1051). Double, white.		.50
Polka Dot. Excellent double, white.		.40
White Fairy. Very double.		.35
White Aster (Pat. App. For). Soft pink to white.		.50

No orders, please, for less than \$25.00. PREPAID to your door,
if you wish to add 10c per plant to above prices.

NURSERYMEN'S EXCHANGE

475 Sixth Street

San Francisco 3, Calif.

CLIMBING MINIATURES

PINK CAMEO (Pat. 1451). Rich rose-pink buds and flowers. Grows 4 to 5 ft. tall. Everblooming.

Retails \$2.00 each. (From 3 -in. pot, \$1.00)
(From 2¼-in. pot, .80)

• **CANDY CANE** (Pat. R.R.). Unusual. Pink buds. Flowers pink with white stripes! Prices same as Pink Cameo.

MAGIC WAND (Pat. R.R.). New. Red. Everblooming. Prices same as Pink Cameo.

CLIMBING JACKIE (Pat. R.R.). Soft yellow. Prices same as Pink Cameo.

REDHEAD. Deep red60

FAIRY PRINCESS. Tiny salmon-orange buds.60

BABY JAYNE. New double pink.50

PAPOOSE. Single white flowers. Excellent ground cover50

SPECIAL COLLECTIONS

SB-59:

10 DIAN
10 PINK FAIRY
10 WHITE ASTER
10 WESTMONT
10 BOBOLINK
5 CANDY CANE
4 FAIRY PRINCESS
3 CLIMBING JACKIE

62 PLANTS—\$34.00 Value
Collection Price, only \$30.00

C-59:

10 PINK FAIRY
10 OAKINGTON RUBY
10 BOBOLINK
10 RED IMP
10 WHITE ASTER
5 MAGIC WAND

55 PLANTS—\$25.50 Value
All for only \$22.50

prohibiting burning of plant refuse will bring court action.

The Home Garden Nursery, which has been operated as a partnership by George and Peter Doig and Alex Lockhart, has been sold for residential subdivision. The new owners have given the nursery until September 1 to move the plants and buildings from the site if they care to do so.

Students and faculty totaling 18, from the University of California in Davis, were visitors at the Mount Eden Nursery, Mount Eden, late in April. Although this is primarily a cut flower establishment, the students in landscape design went to see the methods of packing used by the nursery.

Max Leonard, commissioner of agriculture in San Mateo county, has returned to his duties after being kept at his home because of a wrenched hip.

L. C. Barnard, recently retired director of agriculture from Santa Clara county, is devoting his time to the management of an apricot orchard in Santa Clara county. Mr. Barnard started agricultural extension work with the University of California in Lake county and came to Santa Clara county in 1944 to set
[Continued on page 65]

PACIFIC COAST NURSERY

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Pioneering Seedling Growers on
the Pacific Coast Since 1914

Specializing in Fruit Tree Seedlings
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Cuttings

Combination carloads to eastern distributing points.

John Holmason & Sons
Props.

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the June 15 issue must be received by Friday, May 22.

Forms for July 1 issue will close Friday, June 5.

AQUATICS

Aquatic plants: Choice, select Water Hyacinths, \$3.00 per 100. Pomona Nurseries, R. 2, Box 476, Dade City, Fla.

AZALEAS

AZALEA LINERS
DELIVERY SPRING 1959.
Pot and flat grown.

Amoenae Poukhanensis
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Macrantha Coral Bells
Pink Pearl J. T. Lovett
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\$14.00 per 100, \$125.00 per 1000.

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NEW! NEW! NEW!!!
GABLE'S LATEST AND BEST AZALEA
STEWARTSTOWNIAN
Dwarf kurume habit, dark red foliage,
deep red flower. Completely hardy.
A limited quantity of spring liners available
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\$40.00 per 100. Ask for our new list.
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LINING-OUT STOCK
Transplants from flats, 4 to 5 branches,
\$15.00 per 100, \$130.00 per 1000; 3 to 5,
40¢ each; 5 to 6, 50¢ each.
Lining-out stock of Evergreens. Ask for
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FLATTED SPRING LINERS
Now flatted in large flats of 50 plants each,
growing on for May delivery.
Double Hino, Fedora, Hino-Crimson, Lorna,
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Splendor, Rosebud, Wil. Vuyk.
All, \$25.00 per 100. Ask for our new list.
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BECKY AZALEA
Patent No. 1699.
Per 1000
Rooted cuttings with breaks\$0.25
8 to 10 breaks, bench-grown35
12 to 15 breaks, bench-grown45
Minimum order 500, at 1000 rate.
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FINER LINERS, SELECT QUALITY
45 varieties, 2 1/2-in. Jiffys and flats. Dependable
service. New 1959 catalog, free.
JOHN VERMEULEN & SON
Finer Liners Neshanic Station, N. J.

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STRAWBERRY PLANTS 100 1000
Sure Crop\$2.00 \$14.00
Above for spring delivery. Packing and
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L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Mich.

Grapes, Concord, Fredonia; Blackberries,
Alfred, Eldorado; Raspberries, Golden
Queen, Indian Summer, Sodus; Rhubarb,
Asparagus and Blueberries. Send for prices
on the above quality stock. L. J. Rambo's
Wholesale Nurseries, Bridgman, Mich.

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BONSAI, CONTAINERS AND PLANTS
Bonsai containers, Pines, Junipers, instructions.
Send for catalog and price list.
EVERGREEN FARMS
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Dahlias, minimum order \$10.00.
Jane Cowi\$0.20
Maroon Red15
Rose Glory10
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Avalon10
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We would like to have you try our bulbs.
These mixtures contain many good colors.
Per 1000 Gladioli bulbs Nos. 1 2 3
Giant EXHIBITION MIXTURE.....\$25 \$20 \$15
Fancy BLENDED MIXTURE..... 30 24 19
Net cash with order. F.O.B. Dowagiac.
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Lists over 1000 bulbs, perennials, house
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in attractive packages for resale. Your letter-
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BUXUS SEMPERVIRENS
Rooted cuttings, 3 to 4 ins.,
\$10.00 per 100, \$70.00 per 1000.

These plants are lifted bare-root, fresh
from our nurseries here; dipped in mud,
packed in wet moss and shipped postage or
express collect.

Send check or money order. No C.O.D.
PINKSTON'S NURSERIES
Parrott, Ga.

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CLEMATIS VINES

Large-flowering from 2 1/2-in. pots.
Each, 10 100
Gypsy Queen, dark purple\$0.50 \$0.45
Lawsoniana, sky-blue50 .45
Lady Betty, Balfour purple50 .45
Ville de Lyon, red50 .45
Henry, white50 .45
Cash with order.

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FLORETUM COLORFUL GARDEN MUMS
Top-grade and new varieties. Bred for
early blooming, frost tolerance, winter hardi-
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branched, outside hardened. (No potting
necessary.) Ideal for planting out any time
until late June. All bloom abundantly at
regular time. Labeled.

5 each, 20 varieties, 100 plants\$ 10.00
5 each, 50 varieties, 250 plants 25.00
5 each, 100 varieties, 500 plants 50.00
5 each, 150 varieties, 750 plants 75.00
5 each, 200 varieties, 1000 plants 100.00
10 each, 20 varieties, 200 plants 14.00
10 each, 50 varieties, 500 plants 35.00
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10 each, 150 varieties, 1500 plants 100.00
25 each, 20 varieties, 500 plants 30.00
25 each, 50 varieties, 1250 plants 75.00
25 each, 100 varieties, 2500 plants 125.00
PRAIRIE SOUTHWEST FLORETUM
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HARDY GARDEN MUMS
Strong rooted cuttings, \$6.00 per 100, \$50.00
per 1000. Send for list of 60 good varieties.

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THE JOSEPH F. MARTIN CO., INC.
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CORNUS FLORIDA RUBRA
(Pink Flowering-Dogwood)
Each, per 100
5 to 6 ft.\$ 4.00
6 to 8 ft. 6.00
8 to 10 ft., extra heavy 10.00
10 to 12 ft., extra heavy 20.00
CORNUS FLORIDA
(White Flowering-Dogwood)
5 to 6 ft. 2.50
6 to 8 ft. 3.00
8 to 10 ft., extra heavy 6.00
10 to 12 ft., extra heavy 10.00
(B&B, 75¢ per tree.)

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Corner of Naugatuck Ave. and
West Rutland Rd.
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DOGWOOD

Each
1900 white-flowering, 4 to 6 ft.\$1.95
1280 white-flowering, 6 to 8 ft. 2.95
1450 white-flowering, 6 to 7 ft. 4.00
1600 white-flowering, 7 to 8 ft. 6.00
700 white-flowering, 8 to 10 ft. 7.00
The very best in quality, nursery-grown
Dogwood. You pick them. Phone 395.
WHERRY'S NURSERY, St. Marys, W. Va.

EUONYMUS

EUONYMUS ALATUS COMPACTUS
2-yr., tr., 9 to 12 ins., \$30.00 per 100,
\$250.00 per 1000.
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EVERGREEN LINERS AND CUTTINGS
POT-GROWN STOCK Each, 100 1000

Stock from 2 1/2-in. pots
Arbortvitae pyramidalis, 1-yr.,
6 to 7 ins.\$0.26 \$0.24
Juniper, Pfitzer comp., 1-yr., 5 to 626 .24
Juniperus glauca hetzi, 1-yr.,
6 to 7 ins.26 .24
Juniperus glauca hetzi, 2-yr.,
7 to 9 ins.30 .28
Taxus media No. 8, 2-yr., 7 to 9 ins.30 .28
Taxus hatfieldi, 2-yr., 5 to 6 ins.30 .28
Taxus intermedia, 2-yr., 7 to 9 ins.30 .28
Taxus hicksi, 2-yr., 6 to 8 ins.30 .28
Taxus andersoni, 2-yr., 8 to 8 ins.30 .28
Taxus cuspidata, 2-yr., 6 to 8 ins.30 .28
Taxus media, 2-yr., 6 to 8 ins.30 .28
Euonymus alatus compactus, 2-yr.22 .20
Boxwood, Korean, 2-yr., 3 to 4 ins.22 .20
Buxus sempervirens, 2-yr.,
4 to 5 ins.22 .20

HEAVY ROOTED CUTTINGS
From flats, growing outside in lath house.
Boxwood, Korean, hardy, 3 ins.\$0.09 \$0.08
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Juniperus glauca hetzi, 6 ins.13 .12
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Taxus hicksi, 5 to 6 ins., ready13 .12
Taxus intermedia, 5 to 6 ins., ready13 .12
Taxus cuspidata, 5 to 6 ins., ready13 .12
Taxus andersoni, 5 to 6 ins., ready13 .12
Taxus media, 5 to 6 ins., ready13 .12
Taxus hatfieldi, 4 to 5 ins.13 .12
Taxus browni, 4 to 5 ins.13 .12
Taxus capitata fastigiata, 4 ins.13 .12
Euonymus erectus, 4 to 5 ins.09 .08
Euonymus alatus compactus, 5 ins.09 .08
Euonymus Sarcocoe, 5 ins.09 .08
Euonymus vegetus, 5 ins.09 .08
TERMS: Packing and boxing free. 3 per
cent discount for cash with order.
250 plants of each variety at 1000 rate.

MIAMI NURSERY CO.
Tipp City, O.

CUTTINGS FROM SAND IN MAY AND JUNE

Per 100 Per 1000
Pfitzer Juniper\$ 9.00 \$ 80.00
Andorra Juniper 9.00 80.00
Hetzi Juniper 9.00 80.00
Taxus hicksi 9.00 80.00
Taxus cuspidata 9.00 75.00
Taxus I. Sebian 11.00 100.00

LITTLEFORD NURSERIES
Vincennes, Ind.

Offering 1-yr. banded liners: Taxus, browni,
hicksi, andersoni, Sebian, cuspidata,
wardi, Junipers, pfitzeriana compacta, aurea,
nelsoni, hetzi, 500 to 700 each, \$20.00 per 100.
Arbortvitae, woodwardi and pyramidalis
\$17.50 per 100. Rooted cuttings, May and
June: Browni, hicksi, cuspidata, Sebian,
\$12.00 per 100. Pyracantha lalandi, 2 1/2-in.,
250; 3-in., 350. 500 Pfitzer, 18x24; 100 hetzi.
Special price, Liebhart Ghaes, Norwalk, O.

EVERGREEN LINERS AND CUTTINGS

ROOTED CUTTINGS
Pfitzer Juniper 7c
Pfitzer Hetz Juniper 7c
2 1/2-IN. POTTED
Pfitzer Juniper 17c
Pfitzer Hetz Juniper 17c

TOWNSEND EVERGREEN NURSERY
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PFITZER JUNIPER LINERS
In pots, 2 1/2-in., 18c each.
These are excellent.
BORST NURSERY & GREENHOUSE
5118 S. Broadway Wichita, Kan.

POTTED LINERS

2 1/4-in. pots.	Each	100	1000
Taxus, Adams, 1-yr.	\$18.00	\$170.00
Taxus, Adams, 2-yr.	24.00	220.00
Taxus andersoni, 1-yr.	18.00	170.00
Taxus andersoni, 2-yr.	24.00	230.00
Taxus andersoni, 3-yr.	35.00	325.00
Taxus browni, 1-yr.	18.00	170.00
Taxus browni, 2-yr.	24.00	230.00
Taxus capitata, 1-yr.	18.00	170.00
Taxus capitata, 2-yr.	24.00	220.00
Taxus capitata, 3-yr.	35.00	325.00
Taxus cuspidata, 1-yr.	17.00	160.00
Taxus cuspidata, 2-yr.	22.00	210.00
Taxus cuspidata, 3-yr.	35.00	325.00
Taxus cuspidata, 4-yr.	42.00	400.00
Taxus hicksii, 1-yr.	18.00	170.00
Taxus hicksii, 2-yr.	23.00	220.00
Taxus hicksii, 3-yr.	35.00	325.00
Taxus hicksii, 4-yr.	45.00	425.00
Taxus hunnewelliana, 1-yr.	18.00	170.00
Thuja globosa, 1-yr.	19.00	180.00
Thuja globosa, 2-yr.	25.00	240.00
Ilex convexa, 1-yr.	19.00	180.00
Ilex hetsii, 1-yr.	19.00	180.00
Ilex rotundifolia, 1-yr.	18.00	170.00
Ilex rotundifolia, 2-yr.	35.00	325.00
Ilex stokesii, pat. No. 887, 1-yr.	25.00	225.00

ROOTED CUTTINGS

	100	1000
Taxus, Adams, upright	\$0.09 \$0.08
Taxus andersoni08 ..07
Taxus browni08 ..07
Taxus cuspidata08 ..07
Taxus hicksii09 ..08
Taxus hunnewelliana08 ..07

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate. Special quotations on large orders.

HESLEY BROS. NURSERY

Box 218, R. D. 1 Greensburg, Pa.

EVERGREENS

ROOTED CUTTINGS	Per 100	Per 1000
Arborvitae woodwardi	\$0.09 \$0.08
Arborvitae pyramidalis10 ..09
8 ins.11 ..10
Juniper, Pfitzer, 6 to 8 ins.11 ..10
Juniperus hetsii, 6 to 8 ins.11 ..10
Juniper, Andorra, 6 to 8 ins.11 ..10
Juniper, Swedish, 6 to 8 ins.11 ..10
Taxus cuspidata, 6 to 8 ins.09 ..08
Taxus capitata (leaders), 6 to 8 ins.14 ..12
Taxus hicksii, 6 to 8 ins.09 ..08
Taxus browni13 ..12
1-YR.		
Arborvitae woodwardi17 ..16
Arborvitae pyramidalis17 ..16
Taxus cuspidata20 ..18
Taxus hicksii20 ..18
2-YR.		
Arborvitae woodwardi, 8 to 10 ins.25 ..23
Arborvitae pyramidalis, 10 to 12 ins.27 ..25
Taxus cuspidata, 8 to 10 ins.30 ..28
Taxus hicksii, 8 to 10 ins.30 ..28
Juniperus hetsii, 8 to 10 ins.30 ..28
Euonymus alatus, 12 to 15 ins.30 ..28
GRAFTED SPRUCE \$1.25 each.		
Koster Blue Spruce Moerhelm Blue Spruce		
GRAFTED JUNIPERS	Per 10	Per 100
Juniperus canaertii	\$0.55 \$0.50
Juniperus burkei55 ..50
Juniper, Dundee55 ..50
Juniperus kaibabensis55 ..50
50 of a variety at 100 rate. 300 of a variety at 1000 rate. Write for quotations on lots of 2500 or more.		

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Flint 6, Mich.

EVERGREEN LINERS

	Each	100	1000
POTTED LINERS			
Pfitzer Juniper	\$0.21	\$0.18 1/2
Burk Juniper, 2-yr.22 1/2	..20
Woodward Globe Arborvitae19 1/2	..16
Pyramidal Arborvitae19 1/2	..17
Dark green American Arb.19 1/2	..17
Hets glauca Juniper20	..17 1/2
Berckmans' Blota aurea20	..17 1/2
nana, 2-yr.20	..17 1/2
Armstrong Pfitzer Juniper, 2-yr.21	..18 1/2
Taxus media20	..17 1/2
Taxus andersoni20	..17 1/2
Taxus columbiana20	..17 1/2
Taxus browni20	..17 1/2
ROOTED CUTTINGS, in lath			
Pfitzer Juniper12	..11
Pyramidal Arborvitae11	..10
Woodward Globe Arb.10	..09
Dark green American Arb.11	..10

TERMS: Cash with order. Free packing. 300 plants of a variety at 1000 rate.

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New Lebanon, O.

GRAFTS AND ROOTED CUTTINGS

Blue Spruce		
(Picea pungens moerhelm) grafts.		
25 to 100, \$1.25 each.		
100 or more, \$1.00 each.		
Ilex hetsii rooted cuttings.		
abundant roots.		
100, 150 each; 1000, 12c each.		
All priced F.O.B.		
BRUCE KREKLER NURSERY		
753 S. Cleveland Massillon Rd.		
Akron 13, O.		

QUALITY ROOTED CUTTINGS,

HEAVILY ROOTED	Per 1000
Taxus cuspidata, 7 to 8 ins.
Taxus cuspidata comp. 7 to 8 ins.
Taxus browni, 7 to 8 ins.
Taxus hicksii, 7 to 8 ins.
Taxus sieboldii, 7 to 8 ins.
Taxus andersoni, 7 to 8 ins.
Taxus hatfieldi, 7 to 8 ins.
Taxus intermedia, 7 to 8 ins.
Taxus brevifolia, 6 to 8 ins.
Taxus hunnewelliana, 7 to 8 ins.
Thuja pyramidalis comp., 6 to 8 ins.
Thuja, American, green; 6 to 8 ins.
Thuja woodwardi (globe), 6 to 8 ins.
Juniperus hetsii, blue; 6 to 8 ins.
Juniper, Andorra, 6 to 8 ins.
Juniper, Von Ehrh, 6 to 8 ins.
Juniperus sabina, 6 to 8 ins.
Ilex convexa, 4 to 6 ins.

Shipping charges and packing free, if cash accompanies order.

R. D. 2 LINCOLN NURSERIES

Grand Rapids 4, Mich.

HEAVY ROOTED CUTTINGS OUT OF

SAND JUNE 1	Per 100	Per 1000
10,000 Taxus hicksii, 4 to 6 ins.	\$90.00
20,000 Taxus browni, 4 to 6 ins.	90.00
10,000 Taxus hunnewelliana, spreader, 4 to 6 ins.	10.00 90.00
20,000 Taxus, small amount of others (write)	10.00 90.00
10,000 Ilex hetsii, very fine stock.	10.00 90.00
5 to 7 ins.	10.00 90.00
10,000 Ilex rotundifolia.	10.00 90.00
5 to 7 ins., fine stock	10.00 90.00
5000 Ilex convexa, 4 to 6 ins.	10.00 90.00
10,000 Pachysandra, 1-yr., bedded	5.00 45.00
TERMS: per cent discount for cash, any amount over \$100.00; less than \$100.00, 2 per cent discount.		

HOLLY NURSERY

Vrooman Rd. Painesville, O.

EVERGREENS, ROOTED CUTTINGS

EVERGREENS, ROUTED		Each	100	1000
Arborvitae, American, dark green; 6 to 10 ins.		\$0.10	\$0.09
Arborvitae, pyramidal, 6 to 10 ins.	10	..09
Arborvitae, globe, 4 to 8 ins.	09	..08
Juniper, Hetsi, 6 to 10 ins.	09	..08
Juniper, Pfitzer, 6 to 10 ins.	10	..09
Juniper, Savin, 6 to 10 ins.	09	..08
Juniper, Von Ehrh, 6 to 10 ins.	10	..09
Juniper, Andorra, 6 to 10 ins.	09	..08
Taxus cuspidata, 6 to 10 ins.	09	..08
Taxus hunnewelliana, 6 to 10 ins.	09	..08
Taxus hicksii, 6 to 10 ins.	11	..10
Taxus capitata (leaders), 6 to 10 ins.	13	..12
250 at 1000 rate. Spring delivery.				

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

NORTHERN-GROWN PLANTAINER STOCK

FOR GARDEN CENTER SALE	
TAXUS CUSP. capitata, 12 to 18 ins.	.....
JUNIPERS, Pfitzer and Andorra, \$1.25 each.	
ARBORVITAE, pyramidalis, nigra, elegantissima, woodwardi, wareana, \$1.25 each.	
PINUS MUGHUS, \$1.35 each.	

Over-all quantity rate, order of 100 or more, 10c less each.

Grown in 1-gal. containers 2 years, from 1-yr. rooted cuttings. A nice size plant for over the counter sale.

TERMS: 25 per cent with order, balance prior to delivery. Packing charges extra at cost; pick up at nursery preferred. Purchaser to pay shipping charges.

PEARSON PARK NURSERIES

3649 Navarre (near Toledo) Oregon 5, O.

CANADA HEMLOCK

Collected seedlings

	Per 100	Per 1000
6 to 9-in. seedlings	\$ 5.00 \$30.00
9 to 12-in. seedlings	8.00 70.00
12 to 18-in. seedlings	16.00 120.00
18 to 24-in. seedlings	30.00

TRANSPLANTS

	2-3	20.00	120.00
4 to 8-in.	25.00	240.00
8 to 12-in.	50.00	.....
12 to 18-in.	50.00	.....

Send for complete list of hardy native

Ferns, wild flowers, trees, shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

HEAVILY ROOTED CUTTINGS

Arborvitae woodwardi (globe)	Per 100	Per 1000
6 to 8 ins.	\$ 8.00 \$ 75.00
Juniperus glauca hetsii, 8 to 10.	8.00 75.00
Taxus cuspidata, 6 to 8 ins.	9.00 85.00
Taxus hatfieldi, 6 to 8 ins.	9.00 85.00
Taxus hicksii, 6 to 8 ins.	9.00 85.00

1-YR. TRANSPLANTS

	13.00	120.00
Taxus cuspidata	13.00 120.00
Taxus hatfieldi	13.00 120.00
Taxus hicksii	13.00 120.00
Juniperus hetsii glauca	13.00 120.00

50 at 100 rate; 300 at 1000 rate.

NEIDEL'S NURSERY

216 Park Ave. Oil City, Pa.

FINER LINERS, SELECT QUALITY

Choice varieties, cuttings, grafts, transplants. Dependable service. Catalog, free.

JOHN VERMEULEN & SON

Finer Liners Neshaic Station, N. J.

NANDINA SEEDLINGS

	100	1000
1-yr., 4 to 6 ins.	\$ 8.00 \$45.00
2-yr., 12 to 15 ins.	10.00 50.00
3-yr., 3 to 4 ft.	15.00 125.00

CHERRY LAUREL SEEDLINGS

	100	1000
3 to 4 ins.	\$ 5.00 \$45.00
6 to 8 ins.	10.00 90.00
12 to 15 ins.	15.00 125.00

These plants are lifted bare-root, fresh from our nurseries here, dipped in mud, packed in wet moss and shipped postage or express collect.

Send check or money order. No C.O.D.

PINKSTON'S NURSERIES

Parrott, Ga.

EVERGREENS

Rooted cutting	Per 100	Per 1000
Taxus cuspidata, 6 to 7 ins.	\$9.00 \$85.00
Taxus fastigiata, 6 to 7 ins.	9.00 85.00
Taxus intermedia, 6 to 8 ins.	9.00 85.00
Juniperus glauca hetsii, 6 to 8 ins.	8.00 75.00

1-yr. from frames

Taxus cuspidata, 6 to 10 ins. 15.00 140.00

Taxus fastigiata, 6 to 10 ins. 15.00 140.00

TERMS: 2 per cent discount for cash, or 1/3

down with order and balance before shipment.

HILLCREST GREENHOUSES

Miller Park Franklin, Pa.

HEAVY ROOTED CUTTINGS

	Per 100
Taxus hatfieldi, 6 to 8 ins.
Taxus hicksii, 6 to 8 ins.
Taxus vermeulenii, 6 ins.
Taxus cuspidata, 6 to 8 ins.
Taxus hicksii, 1-yr., very heavy
Taxus hatfieldi, 2-yr., 8 to 10 ins.
heavy
Taxus browni, 2-yr., 6 to 8 ins., heavy
Taxus hicksii, 2-yr., 8 to 10 ins., heavy
Taxus cuspidata, 2-yr., 8 to 10 ins., heavy

FOREST TRAIL NURSERY

Contoocook, N. H.

EVERGREEN LINERS

1-yr. transplanted	Per 100	Per 1000
Juniperus chin. glauca hetsii	\$15.00 \$135.00
Juniperus chin. pfitzeriana	15.00 135.00
Thuja occidentalis globosa	15.00 135.00
Taxus media hicksii	15.00 135.00
Taxus media browni, 2-yr.	15.00 135.00
2 1/4-in. pots, 8 to 10 ins.	15.00 135.00
Juniperus chin. pfitzeriana	20.00 180.00
Juniperus chin. hetsii	20.00 180.00

Cash with order, packing free.

RASMUSSEN NURSERIES

Mansfield, Pa.

BERCKMANS' GOLDEN ARBORVITAE

OUR SPECIALTY

Sturdy liners, dirt-grown in full sun.

	Each	100	1000
4 to 6 ins.	8c	7 1/2c
6 to 8 ins.	11c	10c
8 to 12 ins.	16c	15c
12 to 16 ins.	22c	20c

THE BUSH RANCH

140 Woodland Dr. Thomasville, Ga.

James W. Lawson, Mgr. Phone CA 6-4245

EVERGREENS, B&B

LANDSCAPE MATERIAL B&B

LANDSCAPE MATERIAL, B&B

Taxus. 500 3 1/2 ft. capitata, 200 thayerae
cuspidata, 2 1/2-ft. spread; 600 intermedia
cuspidata, 2 1/2-ft. spread; 500 hicksii, 18 to
24 ins.; 350 globe Arborvitae, 18 to 24 ins.;
300 globe Arborvitae, 2 to 2 1/2 ft.; 800 Leu-
cothodes, 18 to 24 ins.; 1000 Hemlocks, 2 1/2
to 4 1/2 ft.; 800 Pieris japonica, 18 ins. to 2 1/2
ft.; 200 Pieris floribunda, 18 ins.; 500 Juni-
perus hetsi, 2 ft.; 300 Pfister compact Juniper,
2 1/2 ft.; 600 Ilex convexa bullata, 2-ft.
spread; 150 Ilex crenata, 2 to 3 ft.; 200
Juniperus plumosa (gothic), 2 to 3 ft.; 200
Jun. procumbens, 3 ft.; 350 Norway Spruce, 2 1/2
ft.; 300 Arborvitae nigra (Am.), 2 to 3 1/2 ft.

All material first grade and sheared. Also
carry a full line of annual plants for spring.

FRUIT AND NUT TREES

PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell Pecan trees. Vigorous, heavy caliper, smooth trees, grown under irrigation. All ataked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guide for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, John Garner, Western Schley.

PRICES

	10	50	100
6 to 7 ft.	\$3.30	\$3.20	\$3.10
7 to 8 ft.	3.85	3.75	3.65
8 to 10 ft.	4.45	4.35	4.25

WOLFE NURSERY

Box 2000 Stephenville, Tex.

DORMANT FRUIT TREES

Apple, Peach, Plum, Pear, Fig, Nectarine. Submit list for quotations.
WAYNESBORO NURSERIES
Waynesboro, Va.

GARDEN ROOTS

RED RHUBARB, NO. 1 DIVISIONS

Chipman's Canada Red, MacDonald Red, Valentine Red. Also Jumbo divisions.
CHAPMAN'S BERRY FARM
East Leroy, Mich.

GERANIUMS

QUALITY GERANIUM CUTTINGS

Rooted, \$3.50 per 100, \$50.00 per 1000. Special variety slightly higher. Catalog of over 150 leading varieties free.
C. SECRIST, MUSCATINE, IA.

GROUND COVERS

PERIWINKLE

Hardy running Myrtle (Vinca minor), heavy 15 to 25-cane clumps of better than ever quality, dug and shipped fresh, \$50.00 per 1000.

Honeyuckle (Hall's halliana), 2 to 3 branched, \$45.00 per 1000.
English Ivy (Hedera helix), 1-yr., rooted cuttings, \$50.00 per 1000.
Pachysandras, 1-yr., rooted cuttings, \$50.00 per 1000.

H. C. WAUGH

Box 41, Upper River Rd. Gallipolis, O.

IMPROVED BOWLES MYRTLE

A much improved variety with broad, rich glossy green foliage of strong texture. Larger and deeper rich blue flowers in remarkable profusion. Heavy 2-yr., field-grown clumps, \$9.95 per 100, \$98.00 per 1000; 5000 or more, \$95.00 per 1000.

Excellent free packing.
Planting year round. Shipments anywhere including Canada.

GARDEN RESEARCH

Pultneyville, N. Y.

GROUND COVERS

Ajuga genevensis	\$ 5.00 per 100
Ajuga, red-leaf	5.00 per 100
Ajuga, variegated leaf	10.00 per 100
Vinca minor, variegated	30.00 per 100
Euonymus fortunei coloratus	
2 1/2-in. plant bands	20.00 per 100

HOPPERTON NURSERY

P. O. Box 65 Naperville, Ill.

Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, \$5.00 per 100, \$45.00 per 1000. Pachysandras, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash. Also potted stock of all items listed.
VAN ENGEN'S
Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

HARDY MYRTLE

(Vinca minor)

20 to 25 leads, \$50.00 per 1000.

5000 and over, \$45.00 per 1000.

VAUGHAN'S NURSERY

R. R. 2 Granger, Ind.

HARDY PLANTS

GENERAL LINE OF HARDY PLANTS

See our Classified ad in April 15 Issue, page 86, or write
VAN ENGEN'S

KALAMAZOO GARDENS NURSERY
206 Richard Ave. Kalamazoo, Mich.

PERENNIALS

Over 500,000 plants.

Over 475 varieties of choice premium stock. Send for catalog.
SPRINGBROOK GARDENS, INC.
Mentor, O.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

FIELD-GROWN PLANTS

Strong 1 and 2-yr.-old.

	Per 100	Per 1000
Aquilegia Dobbies' Hyb., mixed	\$5.50	\$50.00
Delphiniums, Belladonna	5.50	50.00
Gold Medal	5.50	50.00
Glant Pacific Hyb., mixed	7.00	65.00
Glant Pacific Black Knight, strong 1-yr.	7.00	65.00
Pyrethrum Robinson's Hyb., strong 1-yr.	6.00	55.00

FREE LIST ON REQUEST.

NOVOTNY GARDENS, OSAGE, IA.

GYPSOPHILA BRISTOL FAIRY

Strong 2 1/2-in. pot plants, grafted.

Per doz.	Per 100	Per 1000
\$4.00	\$25.00	\$225.00
25 at 100 rate; 250 at 1000 rate.		

BLUE ACRE GARDENS

P. O. Box 337 Piqua, O.

PITZONKA'S FIELD-GROWN PERENNIALS

Strong field-grown plants. Write for trade list.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

VARIEGATED FUNKIA

3 to 5-eye divisions.

\$20.00 per 100, \$180.00 per 1000.

THE HOLLANDIA GARDENS

South Vienna, O.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HELLEBORUS

HELLEBORUS NIGER

(Christmas Rose)

3-yr. transplants, blooming size.

Suitable to put up for sales on roadside stands and garden center.

\$50.00 per 100, \$450.00 per 1000.

C. HOOGENDOORN

Turner Rd., Newport, R. I.

HEMEROCALLIS

HEMEROCALLIS

The real perennial with a great future, grows anywhere, can be planted any time. We have a large stock of the better varieties at very reasonable prices. Send for list.

RIEGLER PLANT CO., EXPERIMENT, GA.

Hardy Hemerocallis.

Write for wholesale list.

Ortonville Nurseries, Ortonville, Mich.

HOLLY

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

FINER LINERS, SELECT QUALITY

American, English, Japanese. Choice hardy varieties, cuttings, potted and bedded transplants. Dependable service. Catalog free.

JOHN VERMEULEN & SON

Finer Liners Neshaic Station, N. J.

VARIEGATED HOLLY

Liners, 10 to 14 ins. tall, 2 1/2-in. pots, 40c.

Ready for October shipping.

F.O.B. Cash with order.

KRUSCHKE GREENHOUSES

Clackamas, Ore.

ILEX AQUIFOLIUM

From our own northern Ohio stock plants.

Rooted cuttings, 100, \$17.50; 1000, \$150.00.

MAHLSTEDE BROS.

5323-5351 Wilson Mills Rd. Cleveland 24, O.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00.

Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Classified Ads Offer Maximum

Results at Minimum Cost.

IVIES

BALTIC IVY

Hardest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.

Rooted cuttings \$ 7.00 \$ 65.00

2-in. pots 12.50 115.00

NEW THORNDAL IVY

2 1/2-in. pots \$25.00 per 100

Euonymus kewensis, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr. field-grown, \$35.00 per 100.

STRATFORD GARDENS

Russell Breece, M. R. 9 Delaware, O.

BALTIC IVY

	Per 100	Per 1000
Rooted cuttings	\$ 7.00	\$ 65.00
2-in. pots	12.50	115.00

NEIDEL'S NURSERY

216 Park Ave. Oil City, Pa.

LINING-OUT STOCK

LINING-OUT STOCK

Per 100 Per 1000

Acer platanoides,

1-yr. seedlings, 4 to 6 ins. .. \$ 5.50 \$ 45.00

1-yr. seedlings, 6 to 9 ins. .. 6.50 55.00

1-yr. seedlings, 9 to 12 ins. .. 7.50 65.00

2-yr. TFR, 15 to 18 ins. .. 16.50 130.00

2-yr. TFR, 18 to 24 ins. .. 18.50 150.00

Azalea, hinodogiri,

3-yr. T beds, 6 to 9 ins. 65.00 600.00

Berberis thunbergi,

2-yr. TFR, 9 to 12 ins. 8.50 75.00

Berberis thun. atropurpurea,

2-yr. TFR, 9 to 12 ins. 9.50 85.00

Cornus florida, 1-yr. seedlings,

1-yr. seedlings, grafting 6.00 50.00

Cornus florida rubra,

1-yr. grafts, beds 90.00 850.00

3-yr. grafts, TTFR,

18 to 24 ins. 200.00 1750.00

Cydonia japonica,

1-yr. seedlings, 6 to 9 ins. 4.50 35.00

1-yr. seedlings, 9 to 12 ins. 5.50 45.00

Euonymus vegetus, 2-yr.,

TFR, 6 to 9 ins. 35.00 300.00

Fagus sylvatica, 2-yr., TFR,

grafting, 6 to 9 ins. 12.00 100.00

2-yr. TFR, 9 to 12 ins. 15.00 140.00

Ginkgo biloba, 1-yr. seedlings,

4 to 6 ins. 8.00 75.00

Liquidambar styraciflua,

1-yr. seedlings, 4 to 6 ins. 7.00 65.00

1-yr. seedlings, 6 to 9 ins. 8.50 80.00

2-yr. TFR, 9 to 12 ins. 75.00 700.00

Pieris japonica, 1-yr. T beds,

15.00 100.00

Pieris japonica, 2-yr. T beds,

35.00 300.00

Pieris japonica, 3-yr. T beds,

45.00 400.00

Prunus aer. fug. veitchi, 3-yr.,

TFR, 5 to 6 ft. whips 100.00 900.00

Quercus palustris,

1-yr. seedlings, 5 to 9 ins. 8.00 75.00

2-yr. TFR, 9 to 12 ins. 10.00 90.00

3-yr. TFR, 12 to 24 ins. 50.00 450.00

staked 65.00 600.00

2-yr. TFR, 2 to 3 ft.,

staked 65.00 600.00

Sorbus aucuparia,

2-yr. TFR, 18 to 24 ins. 25.00 200.00

2-yr. TFR, 2 to 3 ft. 30.00 250.00

3-yr. TFR, 5 to 6 ft. whips, 100.00 900.00

Tilia cordata, 1-yr. seedlings, beds,

4 to 6 ins. 8.50 80.00

6 to 9 ins. 10.00 95.00

9 to 12 ins. 12.00 110.00

15 to 18 ins. 15.00 135.00

Tilia cordata, 3-yr. TTFR,

4 to 5 ft., staked 75.00 650.00

Viburnum dilatatum, 1-yr.

seedlings, 9 to 12 ins. 5.00 45.00

T — once transplanted; TT — twice trans-

planted; FR — field row.

BOULEVARD NURSERIES

Newport, R. I.

Phone VI 6-1263

EVERGREEN LINERS

In the open 2-yr. bedded stock. 100 1000

Juniperus hetzi glauca,

12 to 14 ins. \$27.00 \$250.00

10 to 12 ins. 25.00 230.00

Juniper. Andorra, 6 to 8 ins. 25.00 230.00

Ilex rotundifolia, 6 to 10 ins. 25.00 200.00

Arborvitae, American

(dark green), 10 to 12 ins. 27.00 250.00

8 to 10 ins. 25.00 230.00

Unnamed Rhododendron hybrids of hardy

ponticum, well-branched catawbiense para-

etase. Good foliage with firm, lightweight

ball, twice transplanted, bed-grown, Japa-

nese beetle certified.

4 to 6 ins., \$25.00 per 100, \$230.00 per 1000.

250 plants at 1000 rate. Stock offered sub-

ject to prior sale. Free packing. F.O.B.

Willoughby. Terms: 2 per cent discount for

cash with order, or by express C.O.D. ship-

ment. OPEN SUNDAYS.

Balled and burlapped stock

PICK UP AT NURSERY Each

Juniperus hetzi glauca, 15 to 18 ins. \$1.50

Pyramidal Arborvitae, 18 to 24 ins. 1.50

Forsythia Spring Glory,

18 to 24 ins. (branched)50

(Suitable for containers)

LITTLE ACRES NURSERY

R. D. 2, Chardon Rd. Willoughby, O.

LINING-OUT STOCK

Ilex burfordi, heavily rooted \$0.03

Ilex rotundifolia, heavily rooted03

Ligustrum lucidum, well-rooted02

Euonymus patens, 3 to 5 ins.02

E. F. DuBOISE NURSERY

Huntsville, Ala.

NANDINAS, 2-YR. LINERS

Per 100 Per 1000

10,000 4 to 6 ins. \$ 6.00 \$ 50.00

15,000 6 to 8 ins. 8.00 70.00

10,000 8 to 10 ins. 10.00 90.00

8,000 2 1/2-in. pots 15.00 125.00

No charge for packing. Cash or C.O.D.

GILMORE PLANT & BULB CO.

LINING-OUT STOCK

Per 100 Per 1000
(EACH) (EACH)

*Althaea Lady Stanley (semi-double white, pink center)		
1-yr. grafts	\$.25	...
*Althaea Woodbridge (large single pink), 1-yr. grafts	.25	...
Cotoneaster divaricata, 1-yr. seedlings	.12%	\$0.10
*Euonymus vegetus, strong		
2-yr., T, heavy	.30	.25
*Fagus sylvatica riversi (River's Purple Beech), 2-yr., T, 12 to 18 ins.	1.75	1.50
*Foraythia Beatriz Farrand (NEW), 1-yr., T, softwood cuttings	.30	.25
*Foraythia Lynwood Gold, 1-yr., T, softwood cuttings	.18	.15
*Foraythia Spring Glory, 1-yr., T, softwood cuttings	.18	.15
*Hydrangea hortensis (hardy), deep pink, compact grower, 2-yr., T	.50	.45
Ilex compacta, 2-yr., T	.40	.35
Ilex glabra compacta, 2-yr., T	.40	.35
Ilex latifolia, 2-yr., T	.40	.35
Ilex rotundifolia, 2-yr., T	.40	.35
Juniper, Andorra, 2-yr., T	.40	.35
Juniperus hetzi, 2-yr., T	.40	.35
Juniperus pfitzeriana glauca, 2-yr., T, from cuttings	.40	.35
*Leucothoe catesbaei, strong 3-yr., T	.40	.35
*Pieris japonica (Andromeda japonica), 3-yr., T, 9 to 12 ins.	.50	.45
Taxus brevifolia (nana), 2-yr., T	.45	.40
Taxus cuspidata, spreading, 2-yr., T	.45	.40
Taxus intermedia, 2-yr., T	.45	.40
Thuja woodwardi, 2-yr., T	.35	..
Viburnum tomentosum (true), 1-yr., T, softwood cuttings, 8 to 12 ins.	.25	.20
*Vitis macrophylla (true), 2-yr. bedded, 18 to 24 ins.	.40	.35
*Weigela vaniciei, 1-yr., T, softwood cuttings	.25	.20

*ITEMS SUITABLE FOR MAIL ORDER

TRADE AND CANNING

See other listings under Azaleas, Maples,

Helleborus, Taxus and Viburnums.

C. HOOGEBOORN, NURSERYMAN

413 Turner Rd., Newport, R. I.

LINING-OUT STOCK

Bedded 1-yr. in the open	100	1000
Ilex convexa	\$.20	\$180.00
Ilex rotundifolia	.20	180.00
Ilex hetzi	.20	180.00
Juniperus pfitzeriana	.20	180.00
Juniperus hetzi	.20	180.00
Taxus andersonii	.20	175.00
Taxus brevifolia	.20	175.00
Taxus capitata, cutting-grown	.25	225.00
Taxus capitata Adams	.25	225.00
Taxus canadensis stricta	.15	150.00
Taxus cuspidata	.15	150.00
Taxus hatfieldi	.15	150.00
Taxus hunnewelliana	.15	150.00
Taxus hicksii	.15	150.00
Taxus intermedia	.15	150.00
Taxus henryi	.20	175.00
Taxus densiformis	.20	175.00
Taxus vermiculata	.15	150.00
Taxus wari	.15	150.00
Taxus Moon's columnaris	.20	175.00
Taxus brownii	.15	150.00
2-yr. bedded in the open		
Ilex convexa	\$.25	\$200.00
Ilex rotundifolia, 6 to 9 ins.	.25	200.00
Ilex hetzi, 6 to 9 ins.	.25	200.00
Taxus Adams col., 12 to 15 ins.	.50	450.00
Taxus Moon's col., 8 to 12 ins.	.30	250.00
Taxus cuspidata, 6 to 9 ins.	.30	250.00
Taxus capitata comp.	.30	250.00
6 to 9 ins.	.30	250.00
Taxus hunnewelliana, 6 to 9 ins.	.30	250.00
Taxus browni, 6 to 9 ins.	.30	250.00
Taxus intermedia, 6 to 9 ins.	.30	250.00

TAXUS CAPITATA, SEEDLING-GROWN

1-yr. seedlings	\$.60	\$50.00	\$450.00
2-yr. seedlings	10.00	90.00	750.00
3-yr. seedlings	17.50	150.00	1250.00
4-yr. seedlings, transplanted, 6 to 10 ins.	30.00	250.00	2250.00

CORNUS FLORIDA (WHITE DOGWOOD)

Seedlings	100	1000	10,000
1-yr., No. 1 grade	\$.60	\$50.00	\$450.00
1-yr., No. 2 grade	.50	40.00	350.00
1-yr., No. 3 grade	.40	30.00	250.00
2-yr., No. 1 grade	1.25	100.00	900.00
2-yr., No. 2 grade	1.00	90.00	750.00

Special prices on large quantities.

Full list on demand.

VERKADE'S NURSERIES, WAYNE, N. J.

Hibiscus Brillante, 2 1/2-in., \$16.00 per 100.

Juniperus sabina tamar., 2 1/2-in., 100, \$20.00.

Polioa yellowiana, 2 1/2-in., \$14.00 per 100.

Ole Olsson Nursery, Inc., 2154 Peck Rd.,

Monrovia, Calif.

CHERRY LAUREL LINERS

2-yr.-old. Grown in the open.

2 1/2-in. pots 10c |

Q. can. 12c

BIG RIVER NURSERY, DUNDEE, MISS.

POTTED LINERS, 2 1/2-IN. ROSE POTS

Azalea Palestina	10-25	100
Azalea Sherwood Red	\$3.00	\$20.00
Berberis julianae	3.50	25.00
Berberis thunbergii atropurpurea	3.50	25.00
Crimson Pygmy	3.50	25.00
Berberis triacanthophora	3.50	25.00
Buxus koreana	3.00	20.00
Buxus sempervirens	3.00	20.00
Chamaecyparis cyano viridis	3.00	20.00
Chamaecyparis plumosa aurea	3.00	20.00
Cham. plumosa sulphurea	3.00	20.00
Cotoneaster conspicua decidua	3.00	20.00
Franklinia alataamaha	4.00	35.00
Ilex cornuta burfordii	4.00	30.00
Ilex crenata helleri	3.00	20.00
Ilex crenata microphylla	3.00	20.00
Ilex glabra	3.00	20.00
Ilex opaca (4 to 6 ins. in the following named varieties)	5.00	40.00
Arden, Christmas Tide, Farago, Lake City, Manly, Cheerful, Della Bradley, Hedge Holly, Mae, Osa.		
Ilex opaca mascula	5.00	40.00
Juniperus depressa plumosa	3.00	20.00
Juniperus glauca hetzi	3.00	20.00
Magnolia rustica rubra	4.00	35.00
Magnolia soulangeana	4.00	35.00
Magnolia stellata	4.00	35.00
Magnolia Pink Alba	4.00	35.00
Mahonia bealei	3.00	22.50
Pieris japonica	3.00	20.00
Pyracantha coccinea laetifolia	3.00	20.00
Taxus baccata repandens	3.50	25.00
Taxus cuspidata	3.50	25.00
Taxus cuspidata aurea	3.50	25.00
Taxus cuspidata capitata	3.50	25.00
Taxus cuspidata compacta	3.50	25.00
Taxus cuspidata densiformis	3.50	25.00
Taxus cuspidata P. & F. compacta	3.50	25.00
Taxus cuspidata nana	3.50	25.00
Taxus media brownii	3.50	25.00
Taxus media clifforti	3.50	25.00
Taxus media halloran	3.50	25.00
Taxus media hatfieldi	3.50	25.00
Taxus media henryi	3.50	25.00
Taxus media hicksii	3.50	25.00
Taxus media vermiculata	3.50	25.00
Taxus media wari	3.50	25.00
Thuja occ. globosa Howe type	3.00	20.00
Thuja occ. globosa novum	3.00	20.00
Viburnum bichenense	3.50	25.00
Viburnum fragnans	3.50	25.00

P. O. Box 123 Wayne, N. J.

EVERGREENS

Andorra Juniper, 6 to 8 ins. bare-root	\$.05
Pfitzer Juniper, 6 to 10 ins. 2-yr., bare-root	.07
Pfitzer Juniper, plant bands	.16
Von Ehrh Juniper, 6 to 10 ins. bare-root	.06
Spreading Jap. Yew (Taxus cuspidata), 2-yr., 6 to 10-in. plant bands	.20
DECIDUOUS, BARE-ROOT	
Blue-leaved Arctic Willow, 10 to 12 ins.	.06
Foraythia Lynwood Gold, 6 to 12 ins.	.05
Foraythia Spring Glory, 6 to 12 ins.	.04
Hypericum Hidcoke, 6 to 8 ins.	.06
Hypericum limelight, 6 to 8 ins.	.06
Honey-suckle (vine), heckrotli, giant flowering, everblooming	.05
Privet, Chinese (Wayside Gardens strain) evergreen in zone 5, 8 to 12.	.04
Privet, Lodense, 8 to 12 ins.	.05
Euonymus patens Flagpole (small-leaved), 6 to 10 ins.; grows 2 ft. tall	.04
Euonymus coloratus, 6 to 10 ins.	.04
Purple-leaved (Texas) Honey-suckle vine, 6 to 12 ins.	.05
Variiegated-leaved (Gold Net), Honey-suckle vine, 10 to 12 ins. 2-yr.	.06
Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.	

MCININCH GREENHOUSES

St. Joseph, Mo.

L. I. GROWN LINING-OUT STOCK

2-yr.-old, lath-grown and sheared	100
800 Taxus thayerana cusp., 8 to 10 ins.	\$35.00
1350 Taxus hicksii, 8 to 10 ins.	35.00
500 Taxus capitata, 8 to 10 ins.	40.00
2000 Taxus intermedia cusp., 8 to 10 ins.	35.00
3800 Hetz Juniper, 10 to 12 ins.	35.00
2000 Pieris japonica, 12 to 14 ins.	50.00
2000 Ilex convexa bullata, 9 to 10 ins.	40.00
900 Ilex crenata, 9 to 12 ins.	40.00

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912 Park Ave., New York 17, N. Y.

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LINING-OUT STOCK

We need the room. Now is the time to

stock up on this item.

12,000 Juniperus glauca hetzi, 2 1/2-in. rose

pots, \$11.00 per 100, \$100.00 per 1000.

In moisture-proof, lightweight cartons.

EMIL R. BRESSER

FLORIST AND NURSERYMAN

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Labor is your biggest expense and time

your greatest opportunity. Don't waste either

with "SECOND-BEST" varieties or quality.

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and service can make you bigger profits.

JOHN VERMOULEN & SON, INC.

Finer liners since 1921 Neshanic Sta., N. J.

POT-GROWN GRAFTS, MAY SHIPMENT.

All our understocks are potted up during the spring, grown in frames in pots all summer and grafted the following winter, ensuring the best root system to be grown and assures minimum losses.

Per 100

*Acer palmatum atropurpureum	75.00
*Carpinus betulus fastigiata	75.00
Cedrus atlantica aurea	100.00
Cedrus atlantica glauca	75.00
*Cornus florida rubra	50.00
*Cornus florida rubra Prosser	65.00
*Cornus florida pendula	60.00
*Cornus florida flore-plena	60.00
*Cornus florida weichi var.	65.00
*Cornus kousa chinensis	60.00
*Cornus kousa speciosa	60.00
*Hamamelis mollis	50.00
*Hamamelis brevipedata	100.00
Fagus sylvatica Tricolor	75.00
Fagus sylvatica riversi	60.00
Fagus sylvatica pendula	60.00
Fagus sylvatica heterophylla	60.00
Fagus sylvatica fastigiata	60.00
*Magnolia stellata	75.00
*Magnolia stellata rubra	75.00
*Magnolia stellata Waterlily	75.00
*Magnolia yulan	75.00
Magnolia cordata (yellow)	75.00
Picea pung. glauca moerhousii	100.00
Pinus cembra	60.00
Pine, Tanyosho	60.00
*Viburnum carlesii	60.00
Viburnum juddii	50.00
Viburnum burkwoodii	50.00
Viburnum chenzalii	50.00

Varities marked with a star can be supplied in 1-yr. field-grown bedded plants, at \$15.00 per 100 extra above the pot-grown rates.

VERKADE'S NURSERIES, WAYNE, N. J.

EVERGREENS

Per 100

Juniperus pfitzeriana comp., 2 1/2-in. pots	\$25.00
Juniperus glauca hetzi, 2 1/2-in. pots	20.00
Taxus Adams, 2 1/2-in. pots	25.00
Taxus cuspidata, 2 1/2-in. pots	25.00
Taxus hatfieldi, 2 1/2-in. pots	25.00
Thuja pyramidalis, 2 1/2-in. pots	20.00
Thuja woodwardi, 2 1/2-in. pots	22.50

SIBIRUS

Berberis Crimson Pygmy, 2 1/2-in. 25.00

Philadelphus aureus, 2 1/2-in. 15.00

1-YR. BEDDED CUTTINGS

Taxus cuspidata 15.00

Taxus hicksii 15.00

Taxus pyramidalis Imp. 12.00

Juniper, Andorra 12.00

Thuja elegantissima 12.00

Thuja sibirica 12.00

Juniper, Pfitzer 12.00

THE HOLLANDIA GARDENS

South Vienna, O.

2-YR. HEAVY LINERS, OPEN BEDDED

Each

10,000 Taxus cuspidata \$0.20

2,000 Taxus capitata, tip cuttings20

1-YR. LINERS, OPEN BEDDED

18,000 Taxus cuspidata15

1,000 Taxus hicksii15

2,000 Taxus mooni15

3,000 Taxus densiformis15

5,000 Taxus capitata, tip cuttings15

ROOTED CUTTINGS OUT OF SAND

Ready June 1, 1959.

20,000 Taxus densiformis09

5,000 Taxus mooni09

4,000 Taxus hatfieldi09

1,000 Taxus hicksii09

20,000 Taxus cuspidata09

5,000 Taxus capitata, tip cuttings09

Minimum order 250.

Cash with order, please.

LAURIEN NURSERIES, INC.

464 Main St. Agawam, Mass.

HEAVY LINERS FROM FIELD BEDS

Per 100

TTT \$55.00 || 10 to 12 ins. 3-yr. TT | 40.00 |
Taxus capitata, 10 to 12 ins. 3-yr. TT	50.00
8 to 10 ins. 2-yr. TT	40.00
Taxus browni, 10 to 12 ins. 3-yr. TT	50.00
Taxus hicksii, 8 to 12 ins. 3-yr. TT	45.00
Taxus hatfieldi, 8 to 12 ins. 3-yr. TT	45.00
Taxus hunnewelliana, 10 to 12 ins., 3-yr. TT	60.00
Above plants 2-yr. T, \$35.00 per 100.	
Euonymus vegetus, 10 to 15 ins. branched	35.00
Ribes alpinum, 10 to 15 ins. branched	15.00

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LINING-OUT STOCK

2 1/2-in. rose pots. Ready for field.

Per 100 Per 1000

Juniperus chin. pfitzeriana \$15.00 | \$140.00 || hibernica fastigiata | 16.00 | 150.00 |
| s |

LINING-OUT STOCK—Continued

LINING-OUT STOCK		
	Per 100	Per 1000
2000 Nandinas, 2-yr., tr., 6 to 8 ins.	\$15.00	\$100.00
1000 Taxus cuspidata, 3-yr., tr., 8 to 10 ins.	30.00	250.00
500 Taxus intermedia, 2-yr., tr., 6 to 8 ins.	30.00	250.00
1000 Ilex rotundifolia, 2-yr., tr., 6 to 8 ins.	22.00	200.00
3000 Biota aurea nana, 2-yr., tr., 6 to 8 ins.	22.00	200.00
500 Spiraea A. W., 2-yr., tr., 6 to 8 ins.	15.00	100.00
5000 Boxwood, semp., 2-yr., tr., 8 to 10 ins.	40.00	350.00
1500 Viburnum burkwoodi, 2-yr., tr., 10 to 15 ins.	22.00	200.00
500 Kolkwitzia, 2-yr., tr., 10 to 15 ins.	30.00	250.00

NICK'S NURSERY, ANCHORAGE, KY.

2 1/2-IN. POTS, 10c EACH
Pfitzer Juniper, Pfitzer Hets Juniper, wax-leaved Ligustrum, Pyracantha lalandi.

ROOTED CUTTINGS
Burford Holly, 5c. Wax-leaved Ligustrum, 4c. Euonymus japonicus, 3c. Euonymus japonicus and Nandinas, 2 1/2-in. pots, 7c. Pfitzer Juniper, rooted cuttings by the 1000 or more, 3c.

Check with order, please.
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LINERS OF THE BETTER KINDS
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

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LIRIOPE
The foolproof border plant, grows anywhere, shade or sun. Hardy to N. Y. Can plant any time. Send for list of thirteen varieties, seven new ones just out.
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ORIENTAL MAGNOLIAS.
2-yr., C.T. liners, heavy roots, liberal grade.
12 to 18 ins. 13 to 24 ins.
Alba superba\$0.35 \$0.40
Lilliputian35 .40
Nigra35 .40
Rustica rubra35 .40
Soulangeana35 .40
Stellata35 .40
GRIMES NURSERIES, SEMMES, ALA.

Magnolia grandiflora, 4 to 8 ins., shipped in pots, 2 1/2-in. or removed, \$15.00 per 100. 1-yr. seedlings for spring 1959, about 4 ins. high, \$50.00 per 1000. Cash and no charge for packing.

Harwell Nursery, Van Buren, Ark.

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RED JAPANESE MAPLE
Your inspection of the plants in foliage is cordially invited.
Per 100 Per 1000
(EACH) (EACH)

*Acer palmatum atropurpureum, selected types, strong 2-yr. grafts, 12 to 18 ins.\$1.50 \$1.25
*Acer palmatum atropurpureum BLOODGOOD, 2-yr. grafts, 12 to 18 ins. 1.75
*Acer palmatum atropurpureum OSSI BENI, 2-yr. grafts, 12 to 18 ins. 1.50
*Acer palmatum atropurpureum OSSI BENI, 3-yr. grafts 2.00
*ITEMS SUITABLE FOR MAIL ORDER TRADE AND CANNING.

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NORWAY MAPLE
Straight trunks. Fine heads. Very fibrous roots.
10-49 50-250
6 to 8 ft.\$3.00 \$2.50
8 to 10 ft., 1 to 1 1/4 in. 4.05 3.25
9 to 11 ft., 1 1/4 to 1 3/4 in. 5.30 4.25
10 to 12 ft., 1 3/4 to 2 in. 7.00 5.50
11 to 13 ft., 2 to 2 1/4 in. 8.00 6.50
PRINCETON NURSERIES
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COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
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500,000 PACHYSANDRAS
Hand-selected, field-grown.
Rooted cuttings, \$30.00 per 1000.
Pick up at nursery only. No delivery.
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1-yr., field-grown\$ 5.00 \$ 45.00
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2 1/2-in., pot-grown 11.00 100.00
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1-yr.-old, large frame plants.
Satisfaction guaranteed.
Large quantity.
\$5.50 per 100, \$43.00 per 1000.
\$40.00 per 5000.
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Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$6.00 per 100, \$50.00 per 1000; \$47.50 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

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Strong rooted cuttings, \$4.35 per 100, \$40.00 per 1000.
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1-yr., field-grown, \$65.00 per 1000.
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Miller Park Franklin, Pa.

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PEONIES
Adolph Rousseau, Barbara Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex, Duff, Marie Lemoine, Mona Jules Elle, Reine Hortense.
3-yr.-old whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

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Red, white, pink, purple. 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10. A yellow Tree Peony for \$1.50 with every 10 others. Discount of 15 per cent on 50; 20 per cent on 150; 25 per cent on 250; 30 per cent on 500.
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PHLOX SUBULATA
(Creeping Phlox)
An excellent choice of varieties.
Transportation charges prepaid by us.
Alba, pure white
Astro, deep orchid-rose
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Butterfly, lilac-bush, showy purple eye
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Sensation, pretty bright pink with red eye
Transplants, \$9.50 per 100, \$90.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of one variety at 1000 rate.
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Careful packing and each variety labeled.
Terms: Cash with order.
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PIERIS JAPONICA (JAP. ANDROMEDA)
Seedlings, 4c; 1-yr., T. 13c to 15c; 2-yr., T. 22 1/2c to 30c. New 1959 catalog, free.
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Finer Liners Neshanic Station, N. J.

For \$4.00

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(PIERIS JAPONICA)

One of the most beautiful broad-leaved Evergreens. Per 100 Per 1000
2 to 3-in., 1-yr., T.\$ 8.00 \$ 75.00
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6 to 8-in., 2-yr., TT. 20.00 190.00
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PIERIS TAIWANEENSIS
2-yr., TT cuttings, 6 to 8 ins., \$50.00 per 100. May delivery. Hardy as japonica; clusters up to 10 ins., held well above the leaves. Broad grower, never leggy.
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PIERIS JAPONICA
Bushy, several stems.
12 to 15 ins., B&B\$2.00
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F.O.B. your truck. No shipping.
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Thousands of Amur River North Privet
Per 100 Per 1000
18 to 24 ins.\$3.00 \$25.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

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PYRACANTHAS
2-yr. plants from cuttings, twice transplanted, Each
Bare-root B&B
500 Kasan, 9 to 12 ins.\$0.55 \$1.00
400 Kasan, 12 to 15 ins.55 1.10
550 lalandi, 9 to 12 ins.50 .90
500 lalandi, 12 to 15 ins.60 1.00
Packing at cost.
THE CAPE COD NURSERIES
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RHODODENDRON LINERS
Own-root, ready May 15.
America, Anton van Wely, atrosanguineum, Dr. Dresselhuys, Everestianum, Lee's Dark Purple, Parsons' Gloriosum, E. S. Rand, Mrs. C. S. Sargent, Ignatius Sargent, \$75.00 per 100; Mrs. P. den Ouden, \$80.00 per 100. Catwabiense album, catwabiense grandiflorum, roseum elegans, \$60.00 per 100.
24 plants to the flat. Minimum order 1 flat at 100 rate. Check with order, please. 5 per cent discount if picked up at nursery.

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FIFTY THOUSAND

OWN-ROOT RHODODENDRONS
A wide range of hardy varieties in 1, 2 and 3-yr. plants. Come and see for yourself to compare quality and prices, or just come and talk Rhododendrons, if you prefer.
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Landscape sizes
Different colors.
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1-yr. T, in 3 and 3 1/2-in. Jiffy pots, 2-yr. TT, from frames (June). Dependable shipping and service. New 1959 catalog, free.
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Finer Liners Neshanic Station, N. J.

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Nursery-grown and collected, 3 to 7 ft. high. Well-shaped and symmetrical plants.
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100,000 hybrid Rhododendrons, landscape and liners. Also Evergreens and shrubs.
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ROSES
The BEST of the old, the NEWEST of the new.
A. A. R. S. WINNERS! STARFIRE and IVORY FASHION. Naturally matured, carefully harvested and generously graded. Catalogs now available. Buy the best. "BUY KLYN'S"
GERARD K. KLYN, INC. MENTOR, O.
Wholesale Rose Growers and Nurserymen IN THE HEART OF FAMOUS LAKE CO.

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See our ad on page 24.
DANEGER'S HI-WAY NURSERY, INC.
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FINAL SPRING CLOSE OUT. FINAL
2-YR. FIELD-GROWN ROSEBUSHES.

RED	POLY. and	FLORIBUNDA
Red Radiance	Floradora	Golden Salmon
Crimson Glory	Ideal	Elise Poulsen
Ami Quinard	CLIMBING ROSES	Blaze (true)
Rouge Mallerin	Paul's Scarlet	Pink Radiance
American Beauty	Red Radiance	Caledonia
	Yellow	Talisman
	Golden Charm	Pointsettia
	Elise	TWO-TONE
	White	Hoover
White Am. Beauty	Talisman	Condense de Santiago
Druschki	Each	100 250 500 1000 2000
No. 1	24c	22c 20c 18c 17c
No. 2	17c	14c 13c 12c 10c
Linners	12c	11c 10c 9c

CUTTINGS FOR POTS OR LINING-OUT
Own-root, Blaze and Paul's Scarlet, cut-
tings, \$6.00 per 100, \$45.00 per 1000.NOTE: Please order only in multiples of
10, no broken bunches. 25 per cent cash
must accompany all orders, balance C.O.D.
2 per cent discount when all cash is sent
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Phone 191, Newsome, Tex.

MINIATURE ROSES

Abundant, continuous flowering, cute little
10-in. bushes, are winter hardy like hybrid
Teas which they resemble. Starred (*) vari-
eties best for forcing. Immediate or later
delivery of 2 1/2-in. own-root pot plants. Write
for FREE nursery stock wholesale price list.

Red (Spring Hill's choice)	Per 10	Per 100
Juliette, large crimson	4.50	40.00
*Little Buckaroo (pat. 1726), red	5.50	50.00
*Oakington Ruby, red	4.50	40.00
Perla de Alacana, red	4.50	40.00
*Prince Charming, red	6.00	55.00
Tom Thumb, red	5.00	45.00
Pink (Spring Hill's choice)	4.00	35.00
*Dian, new deep rose	6.00	55.00
*Patty Lou (patent 1135), pink	5.00	45.00
*Pompon de Paris, pink	4.50	40.00
*Yellow (Spring Hill's choice)	4.00	35.00
*Hit of Sunshine, bright yellow	10.00	90.00
Jackie, cream and gold	4.50	40.00
Presumida, orange, gold and		
salmon	4.50	40.00
White (Spring Hill's choice)	4.00	35.00
*Cinderella (pat. 1051), white	5.50	50.00
*Polka Dot, new, white	6.00	55.00
*White Fairy, superb	5.00	45.00
*Climbing Pink Cameo, pink	8.50	80.00

SPRING HILL NURSERIES CO.
Dept. AN-59 Tipp City, O.

ROSEBUSHES

Big, thrifty plants, guaranteed to please
your most critical customers.

Priced to meet competition.

Shipped when you need them.

Standard and patent.

Bare-root and prepackaged.

A wide assortment to choose from.
Write, phone or wire for price list,
or better still, come see for yourself.MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.
Phone UL 9-2191

ROSES ROSES ROSES

Dissatisfied with your Rose source?

Losing customers?

Ready to throw in the towel?

Cheer up and smile.

It'll be worth your while

to write for our list today.

No order too large or too small.

We personally take care of them all.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

Classified Ads Offer Maximum
Results at Minimum Cost.

ROSE STOCK

MULTIFLORA ROSE
Top quality plants for living fences and
conservation plantings.

Root-crown	Approximate	Per 1000
caliper	height	
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
3 to 8 mm.	12 to 24 ins.	22.50
5 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seed-
lings grown especially for understock. Nema-
tode free. Expertly graded to suit the most
particular.

4 to 6 mm. \$27.50 per 1000

2 to 4 mm. 17.50 per 1000

The above prices are F.O.B. Griggsville,
Ill. nursery. All tops cut back to 10 ins. at
shipping unless otherwise requested. Our
storage facilities are the best. ORDER NOW
for delivery this spring. 10 per cent discount
in lots of 10,000 or over; special quotations
on larger quantities. For less than 1000 add
30 per cent. Packing at cost.FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

SEEDS

RED OR SILVER MAPLE
Seed, 50c per lb.
Write for prices on larger quantities.
KLEIN'S NURSERY
Sedgewickville, Mo.NANDINA SEED
\$1.00 per lb. Add 25c for postage.
PINKSTON'S NURSERIES
Parrott, Ga.Watch Your Results From
American Nurseryman Classified Ads.

SHRUBS AND TREES

POT-GROWN GRAFTS Per 100
Acer palmatum atropurpureum \$65.00
Cornus florida rubra 50.00
Fagus sylvatica asplenifolia 55.00
Fagus sylvatica riversi 55.00
Pinus cembra 55.00
Tilia argentea 55.00

ROOTED CUTTINGS, 1-YR. BEDDED

Buxus sempervirens, 4 to 6 ins. \$10.00 \$ 90.00
Chamaecyparis plaifera aurea, 4 to 6 ins. 12.00
Chamaecyparis luteocens, 4 to 6 ins. 10.00
Juniper, Andorra, 4 to 6 ins. 12.00 100.00
Juniperus horizontalis, 4 to 6 ins. 12.00 100.00
Juniperus pfitzeriana, 4 to 6 ins. 12.00 100.00
Juniperus stricta, 4 to 6 ins. 12.00 100.00
Pachysandra, 4 to 6 ins. 4.00 35.00
Pyracantha islandi 10.00
Pyracantha lalandi, 4 to 6 ins. 15.00
Retinospora plumosa aurea, 6 to 8 ins. 10.00 90.00
Retinospora plumosa, 6 to 8 ins. 10.00 100.00
Taxus brevifolia, 4 to 6 ins. 12.00 100.00
Taxus brevifolia, 4 to 6 ins. 12.00 100.00
Taxus capitata, tips, 4 to 6 ins. 12.00 100.00
Taxus cuspidata, 4 to 6 ins. 12.00 100.00
Taxus hatfieldi, 4 to 6 ins. 12.00 100.00
Taxus hickii, 4 to 6 ins. 12.00 100.00
Taxus Moon's columnaris, 4 to 6 ins. 12.00 100.00
Thuja globosa, 5 to 8 ins. 12.00 100.00
Thuja pyramidalis, 4 to 6 ins. 12.00 100.00
Thuja Geo. Peabody, 4 to 6 ins. 12.00 100.00
Thuja nigra, 4 to 6 ins. 12.00 100.00

1-YR. TRANSPLANTED IN FLATS

Azalea Hino-Crimson \$12.00 \$100.00
Azalea hinodogiri 12.00 100.00
Pieris japonica 12.00 100.00
ROOTED CUTTINGS, 2-YR. BEDDED
Taxus cuspidata \$25.00 \$200.00
Taxus hickii 25.00 200.00

1-YR. SEEDLINGS

Cornus florida, 8 to 12 ins. \$ 5.00 \$40.00
Chinese Chestnut, 18 to 24 ins. 10.00 75.00
Taxus capitata 5.00 40.00

2-YR. SEEDLINGS

Balsam Fir, 4 to 8 ins. \$ 4.00 \$35.00
Chinese Chestnut, 18 to 30 ins. 15.00
Colorado Pinyon Pine (glauca) 8.00 70.00
Concolor Fir, 4 to 6 ins. 8.00 60.00
Douglas Fir, 4 to 6 ins. 6.00 50.00
Ilex crenata, 3 to 5 ins. 5.00 40.00
Picea excelsa, 3 to 5 ins. 3.50 25.00
Picea engelmanni, 3 to 4 ins. 6.00 50.00
Picea (Black Hills Spruce), 3 to 4 ins. 5.00 40.00
Picea pungens glauca, 4 to 5 ins. 4.00 35.00
Picea (White Spruce), 3 to 5 ins. 3.50 25.00
Pinus strobus, 4 to 6 ins. 3.50 25.00
Pinus sylvestris, 4 to 6 ins. 3.50 25.00
Taxus capitata, 4 to 6 ins. 7.00 60.00
Thuja occidentalis, 4 to 6 ins. 5.00 40.00
Thuja orientalis, 4 to 6 ins. 5.00 40.00
Thuja diversifolia, 3 to 4 ins. 6.00 50.00
Thuja canadensis, 3 to 5 ins. 6.00 50.00

2-YR. TRANSPLANTS

Azalea mucronulatum \$15.00
Azalea schlippenbachii 15.00
Azalea mollis 15.00
Pieris japonica 20.00 \$180.00

3-YR. SEEDLINGS

Balsam Fir, 4 to 6 ins. \$5.00 \$40.00
Concolor Fir, 4 to 6 ins. 8.00 70.00
Picea (White Spruce), 4 to 6 ins. 5.00 40.00
Pinus mugus (Tyrolean), 3 to 5 ins. 6.00 50.00
Pinus strobus, 5 to 8 ins. 6.00 50.00
Pinus sylvestris, 5 to 8 ins. 6.00 50.00
Thuja occidentalis, 4 to 8 ins. 5.00 40.00
Thuja orientalis, 5 to 8 ins. 5.00 40.00
Thuja canadensis, 4 to 8 ins. 7.00 60.00

3-YR. SEEDLINGS, TRANSPLANTS

Taxus capitata, 5 to 8 ins. \$12.00 \$100.00
Picea engelmanni, 4 to 6 ins. 7.00 60.00
Picea excelsa, 4 to 6 ins. 6.00 50.00
Picea rubens, 4 to 6 ins. 6.00 50.00
Pinus sylvestris, 5 to 8 ins. 6.00 50.00
Picea pungens glauca, 4 to 6 ins. 8.00 70.00

4-YR. TRANSPLANTS

Azalea hinodogiri (branched) \$50.00
Azalea poukhanensis (branched) 50.00
Leucothoe catesbaei, 8 to 12 ins. 35.00
Picea pungens glauca, 6 to 10 ins. 12.00 \$100.00
Taxus capitata, 5 to 10 ins. 15.00 125.00
Thuja occidentalis, 8 to 12 ins. 12.00
Thuja canadensis, 5 to 8 ins. 10.00 95.00
Thuja canadensis, 8 to 10 ins. 15.00 140.00
Thuja canadensis, 10 to 12 ins. 20.00 190.00VAN DINE NURSERY
287 Berdan Ave. Wayne, N. J.TAXUS Each, 100 1000
Capitata, cuspidata, hickii,
10 to 15 ins., 5-yr. TT \$0.90 \$0.80
Cuspidata, 4-yr., TT75 .65JUNIPERS
Pfitzer, 2-yr. bed30 .25
12 to 15 ins., 4-yr., TT75 .65
Hetal, 12 to 15 ins., TT75 .65
Fastigiata, 15 to 18 ins., 4-yr. TT75 .65ARBORVITAE
Pyramidal, 15 to 18 ins., 4-yr. TT75 .65SCOTCH PINE
2 to 3 ft., T, bare-root 1.10 1.00
B&B 1.60 1.45SYCAMORE
3 to 4 ft., T60
4 to 5 ft., T75
5 to 6 ft., T90SILVER MAPLE
6 to 12 ins., s. \$10.00 per 1000
12 to 24 ins., s. 20.00 per 1000
2 to 3 ft., s. \$10.00 per 100, 50.00 per 1000
3 to 4 ft., s. 15.00 per 100, 75.00 per 1000
4 to 5 ft., s. 20.00 per 100WHITE BIRCH
Single stem, 1 to 3 ins., multiple stem,
10 to 15 ft.
2 per cent discount, cash with order.
Write for complete price list.RICHARDSON NURSERIES, INC.
53947 Fir Rd., R. 1 Granger, Ind.HEATHER AND BROOM
Field-grown Each
300 Calluna vulgaris alba erecta \$0.45
4 to 6 ins. 100.00
400 Calluna vulgaris alba pilosa, 4 to 6 ins.45
300 Calluna vulgaris alba pilosa, 6 to 8 ins.55
100 Calluna vulgaris alporii, 4 to 6 ins.45
200 Calluna vulgaris rubra, 8 to 10 ins.65Add 35c to price of above if plants are to
be burlapped.150 Cytisus praecox, 9 to 12 ins., B&B \$1.25
500 Cytisus praecox, 18 to 24 ins., B&B, 1.75
100 Cytisus purgans, 6 to 9 ins., B&B, 1.00
200 Cytisus scoparius, 18 to 24 ins., B&B 1.75
100 Cytisus scoparius andreaeanus, 18 to 24 ins., B&B 1.75

Packing at cost.

THE CAPE COD NURSERIES
H. V. LAWRENCE, INC.
Falmouth, Mass.BUDDLEIAS (BUTTERFLY BUSH)
A beautiful shrub for landscaping or flor-
ists' cut, in a variety of colors, from 2 1/2-in.
pots.Per 100 Per 1000
Dubonnet, reddish lavender \$12.50 \$100.00
Snowbank, white 12.50 100.00
Pink Charming, pink 12.50 100.00
Royal Red 15.00 125.00
Ile de France, wine-purple 15.00 125.00
Imperial Blue 15.00 125.00
R. H. MURPHEY'S SONS CO., URBANA, O.ROOTED CUTTINGS FROM SAND
All cuttings 6 to 8 ins.Ilex crenata, Ilex convexa bullata, Taxus,
intermedia, hickii, thayerae, kelseyi, hat-
fieldi, cuspidata, \$9.00 per 100. Also 2000
hybrid Rhododendrons, 2000 Pieris japonica,
grown 24 to 36 in. in soil; English Ivy and
Pachysandra in flats and pots.BRAND'S NURSERY
912 Park Ave. Huntington, L. I., N. Y.
Phone Hamilton 3-2456MOST BEAUTIFUL CRAPE MYRTLE
Thousands of pink, sparkle brilliant red,
Nursery-grown, full, well-developed bushes,
good roots.18 to 24 ins. \$25.00 per 100
2 to 3 ft. 35.00 per 100
3 to 4 ft. 50.00 per 100
Attractive price on 1000 or more lots. Sat-
isfaction guaranteed.

ROBINSON NURSERY CO., Greenville, Ga.

RHODODENDRONS AND AZALEAS
Rooted cuttings and liners.
Propagators.GLADSGAY GARDENS NURSERY
6311 Three Chopt Rd.
Richmond 26, Va.NURSERY STOCK
TAXUS, RHODODENDRONS, JAPANESE
MAPLE, AZALEAS, HOLLIES, MAGNO-
LIAS, DOGWOODS and other choice founda-
tion planting stock in both finished and
lining-out grades. Catalog upon request.
Buy the best, "BUY KLYN".GERARD K. KLYN, INC., MENTOR, O.
Wholesale Rose Growers and Nurserymen
IN THE HEART OF FAMOUS LAKE CO.CRYPTOMERIA JAPONICA
1-yr. seedlings, \$5.00 per 100, \$45.00 per 1000.
Delivery after middle of May.BOULEVARD NURSERIES
Newport, R. I.FINER LINERS, SELECT QUALITY
Dependable service. New 1959 catalog, free.
JOHN VERMEULEN & SON
Finer Liners Neshaic Station, N. J.Turn your Surplus Stock
into cash
with a Classified Ad in
the American Nurseryman.

STRAWBERRIES

WHOLESALE PRICE LIST
PACKAGE STRAWBERRY PLANTS
CERTIFIED DARK-GROWN

Individual bunches of 25 plants in poly-bags, packed in attractive outside wrapper with picture in color, variety name and planting instructions. Reduced prices. Gem, Superfection and Streamliner, 40-bunch crate, \$20.00. Armore, Tennessee Beauty, Aroma, Premier and Robinson, \$16.00. Dunlap and Blakemore, \$12.00. All prices are by parcel post or express prepaid. Cash with order. These plants are as good as grown anywhere at any price. Each bunch well-cleaned, neatly tied and guaranteed true to name as labeled.

IDEAL FRUIT FARM, STILWELL, OKLA.
Phone PR 4-7853.

TAXUS

NORTHERN-GROWN
PLANTAINER STOCK

TAXUS, cuspidata, capitata, compacta, densa, intermedia, brownii, nana, hatfieldi, spreading, hickelii, wellerleyana, \$1.35 each. TAXUS CUSP. capitata, 12 to 18 ins., \$1.65 ea. Over-all quantity rate, order of 100 or more, 10c less each.

Grown in 1-gal. containers 2 years, from 1-yr. rooted cuttings. Heavily sheared, ready for growing on in larger containers or lining out.

TERMS: 25 per cent with order, balance prior to delivery. Packing charges extra at cost; pick up at nursery preferred. Purchaser to pay shipping charges.

PEARSON PARK NURSERIES
3649 Navarre (near Toledo) Oregon 5, O.

ROOTED CUTTINGS, READY MAY 1

Taxus hatfieldi No. 7
Taxus hickelii
Taxus intermedia,
Taxus Klein 66,
\$85.00 per 1000.

THEO. KLEIN NURSERY
Crestwood, Ky.

TAXUS CAPITATA

The seed was imported from Japan. The plants are strong selected 4-yr. transplants. Two years ago when the stock was transplanted, only selected plants were picked to grow on.

Per 100 Per 1000
(EACH) (EACH)
4-yr., T. 10 to 15 ins., heavy, \$0.45 \$0.40
C. HOOGEENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

TAXUS CUSPIDATA

20,000 heavily rooted cuttings,
from sand.
\$50.00 per 1000.
Free packing, cash with order.

DANIEL K. HECKERT & SON NURSERY
R. D. 1 Northumberland, Pa.

TAXUS, ROOTED CUTTINGS 100 1000
Pyramidalis nigra\$12.00 \$100.00
Media 10.00 80.00
Media brownii 10.00 80.00

MAHLSTEDE BROS.
5323-5351 Wilson Mills Rd. Cleveland 24, O.

FINER LINERS, SELECT QUALITY
25 choice varieties cuttings, potted, bedded and field-row transplants. Catalog free.

JOHN VERMEULEN & SON
Finer Liners Neshanic Station, N. J.

TAXUS HICKSI

3-yr.-old, \$35.00 per 100, \$300.00 per 1000.

SCHNEIDER'S GARDEN CENTER
Bowie, Md.

VEGETABLE PLANTS

WHOLESALE PRICE LIST 1959

Plant variety	Date ready	Per 1000
Cabbage	Now	\$2.00
Onion	Now	1.50
Lettuce	Now	4.00
Broccoli	Now	4.00
Cauliflower	Now	4.00
Pepper	April 15	4.50
Eggplant	April 15	4.50
Tomato	April 15	4.00
Hybrid Tomato	April 15	5.00

All above prices F.O.B. Albany.
Quantity prices on 100,000 lots upon request.
Leading varieties large, fresh plants.
Prompt shipment. Write for catalog.
Write or wire.

PIEDMONT PLANT CO.

Dept. 905 Albany, Ga.

VIBURNUMS

VIBURNUM CARLESI COMPACTA (NEW)
This is a compact form of Viburnum carlesii with dark green leaves and buds up very readily.

Per 100 Per 1000
(EACH) (EACH)
Strong 3-yr. grafts\$1.50 \$1.25
C. HOOGEENDOORN, NURSERYMAN
413 Turner Rd. Newport, R. I.

WANTED

WANTED

LINING-OUT STOCK
CRATAGUS CRUGALLI.
Please quote sizes and prices.

SIMMONS NURSERY

2260 Eastgate Rd. Toledo 14, O.

WANTED

SURPLUS NURSERY STOCK
for distribution to chain store accounts in the East and Midwest. Send us your list of surplus stock with price listings for volume shipments. Call us for immediate action.

ARTHUR GAKLIS
43-45 Summer St. Somerville 43, Mass.
Phone MOnument 6-3015

Wanted—Rare and unusual Evergreens; variegated, pendulous, prostrate, fastigiata and dwarf forms of both conifers and broad-leaved Evergreens. Please write.
John D. Corbit, Jr., 821 Hag's Ford Rd., Narberth, Pa.

WANTED

50 Fothergillas,
500 Abies nordmanniana seedlings.
PETER CASCIO NURSERY
2600 Albany Ave. West Hartford 7, Conn.

MISCELLANEOUS

HEAVY CANNED PLANTS

Pfitzer, Baker and Greek.
Also canned Day Lilies and other items.

A load for trailer truck.

A big bargain for grower

with planting room.

Will make you quick money.

ESCOTT'S

1122 North 44th St. Ft. Smith, Ark.
Phone SUnset 3-4384

SUPPLIES

BURLAP

HOLLAND BURLAP squares, for all needs.
VIKING CLOTH, a film imbedded Burlap, in squares, used instead of tarps, and in 50-yard rolls, 5 ft. wide, \$38.00.
HALF MOON CO., Box 27A, Plainfield, N. J.

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

CANE STAKES

LIGHTNING SERVICE

ON

FRESHLY IMPORTED

JAPANESE BAMBOO CANE STAKES

from
NEW YORK, CHICAGO, PORTLAND, ORE.

Write for our competitive prices

and generous quantity discounts.

McHUTCHISON & CO.

695-N Grand Ave. Ridgefield, N. J.

2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES

For greenhouse and nursery purposes.

All types and sizes.

Write for prices and quantity discounts.

ALEC HENDERSON, INC.

1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.

Ask for our Nursery Supply List.

HALF MOON CO., Box 27A, Plainfield, N. J.

Check Your Stock NOW!

If you have a surplus

sell it through the

American Nurseryman Classified Ads.

CHRISTMAS TREES

10,000 Scotch Pine, Cattaraugus County,
N. Y., Christmas trees. First cutting. Write.

J. D. Perry, R. 2, Mayville, N. Y.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

COLOR TAGS

COLOR PICTURE TAGS

Quick shipments. Reasonably priced.
Shrubs, shade, fruits, vines, flowering trees,
etc. Write for price list.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

CONTAINERS

KNOCKED-DOWN CANS APOLOGIZES
We have been unable to produce our quality cans at a price you are willing to pay. This problem will be solved. We thank our many friends for their inquiries and will not forget you. Give us time to work out a solution.

BENSON & WEDDING

Knocked-Down Cans
16730 Ayre Ave. Tinley Park, Ill.

FERTILIZERS

PETERS SPECIAL

CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS

21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
20-10-15 Nurserymen's Special.
All above, \$6.50 per 25-lb. bag.
\$22.00 for 4 25-lb. bags.

20-20-20 General Purpose Feed.
10-20-20 Low Nitrogen Special.
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.

LONG-LIFE FEEDS

13-6-6 Organic Special Du Pont Uramite
Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.

\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite, 35 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

FRITTED POTASH

Contains 32 per cent K₂O, plus fritted trace elements. Will not leach away. Gives 6 to 9 months' assured supply of Potash, regardless of leaching rain or heavy watering. \$9.00 per 25-lb. bag; \$8.00 per 25-lb. bag for 4 to 39 bags.

Write for complete price list.
Freight prepaid to any state in the Union with the exception of Alaska, on all orders totaling 300 lbs. or more. West of the Mississippi, add 2c per lb. on 300 lbs. and over, prepaid shipments. F.O.B. Allentown, Pa., on all orders less than 300 lbs.

PETERS SPECIAL

RETAIL PACKAGES

20-20-20.
1-lb. resale container,
packed 12 to a carton.
Resale price, \$1.25 to \$1.50.
12-pack carton costs you \$10.50.

20-20-20.
5-lb. resale tub,
packed 6 to a carton.
Resale price, \$3.75 to \$4.95.

6-pack carton costs you \$15.75.
F.O.B. Allentown, Pa. Total orders of 300 lbs. or over shipped prepaid anywhere in the United States, with the exception of Alaska.

ROBERT B. PETERS CO., INC.
323 N. 15th St. Allentown, Pa.

FLATS

WHITE CEDAR FLATS

Order by No.	Size I.S.M.	Price per	Wt. per
No. 1.	14x20x3 1/2-in.	\$27.00	100
No. 2.	14x20x3 1/2-in.	31.50	320
No. 3.	12x16x2 1/2-in.	20.75	260
No. 4.	12x16x3 1/2-in.	24.50	275
No. 5.	14x16x2 1/2-in.	23.25	275
No. 6.	14x16x3 1/2-in.	27.50	290
No. 7.	15x22x2 1/2-in.	30.75	380
No. 8.	15x22x3 1/2-in.	35.50	425
No. 9.	11 1/4x22x2 1/2-in.	25.00	320
No. 10.	11 1/4x22x3 1/2-in.	29.00	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	5x11x5-in.	16.75	160
No. 13.	5x16x5-in.	19.00	215
No. 14.	5x8 1/2x2 1/2-in.	6.50	45

Skeleton flats to carry TECPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.
5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

Bottoms and sides are 3/4-in. thick and ends are 3/4-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 3/4c per end piece for the first 1000 ends; 1/4c per end thereafter.

Shipped knocked-down in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified. Attach check.

H. C. HILL & SONS
Manufacturer of flats, dowels and specialties.

Phone North 6-3348, Cook, Minn.

REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bd.
50 pcs. to bundle, 5 ft., \$4.50 per bd.

50 pcs. to bundle, 6 ft., \$5.50 per bd.
Ship same day. Cash with order, please.

YOHO & HOOKER, YOUNGSTOWN 2, O.

CYPRESS FLATS

No.	Size I.S.M.	Per 100 Wt.
1.	14x20x2 3/4-in.	\$25.00 590
2.	14x20x3 3/4-in.	29.00 650
3.	12x16x2 3/4-in.	20.00 440
4.	12x16x3 3/4-in.	24.00 530
5.	14x16x2 3/4-in.	22.00 510
6.	14x16x3 3/4-in.	26.00 590
7.	15x22x2 3/4-in.	29.00 670
8.	15x22x3 3/4-in.	33.00 780
9.	11 1/4x22x2 3/4-in.	33.00 640
10.	11 1/4x22x3 3/4-in.	28.00 630
11.	14x16x5-in.	30.00 720
12.	5x11x5-in.	16.00 300
13.	5x16x5-in.	18.00 380

Any size to order. Write for price list on skeleton flats. Bottoms and sides 3/4-in. thick; ends 1/2-in.; all planed one side. 5 per cent discount on orders of \$50 or more. Check with order. Up to 3 lines printing in black ink if desired; \$1.00 set up charge plus 1c per end piece. Shipped K.D. in bundles of 25, F.O.B. Williamston, by truck, unless specified otherwise.

H. C. HILL & SONS

P. O. Box 747 Williamston, N. C.
Phone Swift 2-4127

IRRIGATION EQUIPMENT

IRRIGATION EQUIPMENT

Buy direct from factory. New or used pumps, aluminum or steel irrigation pipe, fittings, irrigation well service. Moulton Eagle boom sprinkler, 3 sizes. Write for free catalog.

MOULTON IRRIGATION CO.

Dept. AN9 Withrow, Minn.

LABELS

DAHLIA OR TREE LABELS

	Plain	Painted
3 1/4 x 5 in., notched, not wired	\$3.00	\$2.60
3 1/4 x 5 in., wired (copper)	3.95	4.90
4 x 5 in. (cartons 1000 each)	3.95	4.60
5 x 5 in. (cartons 1000 each)	4.30	5.10
6 x 5 in. (cartons 1000 each)	4.70	5.80
8 x 5 in. (cartons 500 each)	\$3.50	\$4.30
10 x 5 in. (cartons 500 each)	4.20	5.10
8 x 7 in. (cartons 250 each)	3.00	3.60
10 x 7 in. (cartons 250 each)	3.30	3.90
12 x 7 in. (cartons 100 each)	3.00	3.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.

"We ship same day."

YOHO & HOOKER, YOUNGSTOWN 2, O.
FINEST BLANK OR PRINTED wood labels.
BENJ. CHASE CO., VII. Sta., DERRY, N. H.

ORCHID SUPPLIES

HOOF AND HORN MEAL

Slow acting source of nitrogen.
1 lb., 20c; 25 lbs., \$4.50; 100 lbs., \$14.50.

AMMONIUM NITRATE

A rapid source of nitrogen.
1 lb., 15c; 25 lbs., \$2.75; 80 lbs., \$7.50.

FISH MEAL

High protein content (approx. 54 per cent).
1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.00.

SHREDDED WAX PAPER

For packing, protecting blooms.
1 lb., 85c; 10 lbs., \$7.50; bale, \$35.00.

WRIGHTWOOD FLORAL CO.

1420 Wrightwood Ave. Houston 9, Tex.

PEAT MOSS

"BRODLEAF" Holland Peat Moss. Carlot. Standard 7 1/2 cft. Gardener 6 cft. and Halves. Jumbo for growers, two bales equal three. HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT FOOD

PENNSYLVANIA DISTRIBUTOR

CHLOROMONE

Liquid plant hormone with chlorophyll.
4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tin 45.00
HEASLEY BROS. NURSERY
R. D. 1, Box 218 Greensburg, Pa.

OHIO DISTRIBUTOR

CHLOROMONE

Liquid plant hormone with Chlorophyll.
4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tin 45.00
CRUMRINE NURSERY
13577 Iowa Ave. N. E. Alliance, O.

CHLOROMONE

Liquid plant hormone.

4-oz. jar \$ 3.00
Case of 12 23.40
Case of 24 43.20
Gallon tin 45.00
HESS NURSERIES
P. O. Box 128 Wayne, N. J.

PLASTIC FILM

POLYETHYLENE FILM

SUN-RESISTANT BLACK FOR MULCHING

.0015 MIL.
3 ft. x 500 ft. \$ 7.75 roll
3 ft. x 1000 ft. 15.50 roll
4 ft. x 1000 ft. 20.50 roll

NATURAL TRANSPARENT ONLY

.002 MIL. ALL ROLLS 200 FT. LONG.
4 ft. x 2 in. x 200 ft. \$ 6.25 roll
8 ft. x 4 in. x 200 ft. 12.50 roll
12 ft. x 200 ft. 17.70 roll

NATURAL TRANSPARENT ONLY

.004 MIL. ALL ROLLS 100 FT. LONG.
3 ft. x 100 ft. \$ 5.00 roll
4 ft. x 100 ft. 7.00 roll
6 ft. x 100 ft. 11.00 roll
8 ft. x 100 ft. 15.00 roll
14 ft. x 100 ft. 20.50 roll

MINIMUM ORDER .004 mil. 4 rolls up to 8 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.

PHONE BALDWIN 3-3277.

DAYTON NURSERY & GARDEN SALES.

P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

1 1/4 mil., black, in 1000-ft. rolls, 3 ft. wide, \$20.40; 4 ft. wide, \$27.00.
2 mil., natural, in 200-ft. rolls, 4 ft. x 2 in. wide, \$8.00; 8 ft. x 4 in. wide, \$15.00; 12 ft. wide, \$21.60.

4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.

10 per cent discount on orders over \$24.00.
20 per cent discount on orders over \$60.00.
35 per cent discount on orders over \$50.00.

We pay freight if check is with order.
6 mil. available in widths up to 32 ft.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.
.004 mil., all rolls 100 ft. long.

3 ft. wide by 100 ft. long \$ 6.00 per roll
4 ft. wide by 100 ft. long 8.00 per roll
6 ft. wide by 100 ft. long 12.00 per roll
8 ft. wide by 100 ft. long 16.00 per roll

Other sizes available up to 20 ft. wide.
Send \$1.00 for liberal sample.
4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.
5 rolls to 9 ft., 35 per cent discount.
100 rolls or more, 33 1/2 per cent discount.

"We ship same day."

YOHO & HOOKER

520 Williamson Ave. Youngstown 1, O.

VIKING-CLOTH, a film embedded in Burlap.

POLLY-FILM, all in Sheets and Rolls.

HALF MOON CO., Box 27A, Plainfield, N. J.

PLASTIC POTS

WILSON HIGH IMPACT

POLYSTYRENE PLASTIC POTS
Attractive mottled colors in utility grade, sold in original cartons only. All priced F.O.B. DAYTON, O.

2-in., round, 1000 case \$ 8.50 12 lbs.
2 1/2-in., round, 1000 case 11.50 15 lbs.
3-in., round, 1000 case 17.00 35 lbs.
4-in., round, 500 case 32.00 35 lbs.
4-in., round tub, 500 case 32.00 35 lbs.
6-in., round, 120 case 120.00 35 lbs.
6-in., round tub, 120 case 105.00 25 lbs.
2 1/2-in., square, 1000 case 10.00 15 lbs.
3-in., square, 1000 case 17.00 35 lbs.
4-in., square, 1000 case 32.00 35 lbs.

Also available in solid pastel colors, add 20 per cent to above price for colors. Samples sent upon request.

DAYTON NURSERY & GARDEN SALES

P. O. Box 763 Dayton 1, O.

Phone Baldwin 3-3277

If you don't find it listed here try a Want Ad in the next issue of the American Nurseryman.

PRINTING

Hammermill bond letterheads, 8 1/2 x 11. White wove envelopes, 6 1/2 size. 250 of each for \$6.50, postpaid to zone 3. H. Grebe, 306 Union St., Royersford, Pa.

More customers for you!
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS.

Large burlap bales, long fibered, clean, firmly packed; bale, \$1.25.
JOSEPH JAMROS, CITY POINT, WIS.

Fresh, clean sphagnum moss, write or phone City Point 153 for our low prices on wirebound bales in truckloads or carlots.
Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price up on truckloads delivered.
Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.
1x1-in.—3 ft., pointed \$3.00 per bundle
1x1-in.—4 ft., pointed 3.50 per bundle
1x1-in.—5 ft., pointed 4.50 per bundle
1x1-in.—6 ft., pointed 5.50 per bundle
1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown 1, O.

STAKES, GALVANIZED HARD STEEL

GALVANIZED tree guying WIRE,

HOSE for guywire FADING.

Prices and samples sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

CALIFORNIA NOTES

[Continued from page 57]

up the extension office at San Jose. One of the first agricultural developments due to his personal activities was pruning of walnuts, a practice which had not been followed in that county until he introduced it. Another of his introductions was the grafting of better strains of walnuts onto established trees.

Northern Californians, especially those in the bay area, welcome word from Washington that Congress has approved the appropriation of funds for the building of the Pacheco tunnel. This tunnel will carry water through the low mountains that separate the coast counties from the San Joaquin valley and will bring water from the Sacramento and San Joaquin rivers to the coast counties instead of allowing it to flow into the Pacific ocean. This is but one of several projects which are under way to bring water to these areas.

A dry and rather cold winter slowed down activities in the retail nurseries, but the spring months are reported by most nurserymen as being ahead of comparable periods of a year ago. Several report that the total for the year so far is ahead of a year ago. Prices in general are as high as or higher than those of a year ago. Cut-rate retail nurseries which advertise extensively report business is good.

The Cottage Gardens, in the Portola valley shopping center, advertised a "Quitting Business" sale beginning April 27.

The Altos Iris Society held a program May 1 on iris culture, including the showing of 100 colored slides and 36 specimen flowers. A short talk on iris hybridization was given.

Max Foehr, landscape foreman at Golden Gate park in San Francisco for nearly half a century, died April 15 in the Notre Dame hospital, San Francisco. He was 87 years old.

Dominick Bellizzi, 72, a retired

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

BUSINESS OPPORTUNITY

Clarendon Gardens Nursery is looking for an experienced nurseryman to join the firm on either a partnership or management basis. Would consider working arrangement here October through April basis. Will grow 300,000 plants this year—have large tax carry forward for the next five years. Are specializing in broad-leaved evergreens. Business is wholesale, mail order, retail and landscaping work. Have everything here to work with—what we need is a man with "know-how" to run a successful business.

CLARENDON GARDENS
NURSERY

Box 1065 Pinehurst, N. C.

HELP WANTED

SALES POSITION OPEN

Medium-size midwestern grower-nurseryman has opening for wholesale salesman. Old, established firm growing a full line of ornamentals. Now concentrating on Great Lakes area, but need more coverage. Salary plus bonuses—no commissions. Send resume to Box 523, care of American Nurseryman.

HELP WANTED

LANDSCAPE NURSERY MANAGER

Must have landscape design and sales experience. Excellent salary plus percentage. Air mail qualifications to:

MALMO NURSERY & LANDSCAPE
SERVICE
Seattle 5, Wash.

HELP WANTED

Salesmen to call on trade for large midwestern wholesale nursery offering excellent assortment. Good territories available. Liberal commission. Write giving full information about self. Reply to Box 601, care of American Nurseryman.

SITUATION WANTED

Young, ambitious man, college trained in horticulture and landscape design, desires work with nursery. Highly interested in landscape design. Will graduate in June from University of Rhode Island. 23 years old, married, no military obligation.

BRADFORD E. SOUTHWORTH
44 Lower College Rd.
Kingston, R. I.
Phone: STerling 3-7846

SITUATION WANTED

Family man, 42, desires permanent position in retail sales or management. College graduate, 12 years' merchandising experience, 6 years' manager of large midwest garden center. Prefer to locate in southeast U. S. Other localities considered. Complete resume available. Reply to Box 599, care of American Nurseryman.

FOR SALE—Garden center florist and gift shop. Complete stock. Store and greenhouse, storage building, 7-room home, 20 miles northwest of Chicago on Rt. 45 in fast-growing town of Mundelein. If interested, let's talk it over. HOFFMANN'S NURSERY & GARDEN CENTER, 615 S. Lake St., Mundelein, Ill. Phone: MU 6-7062.

WANTED TO BUY

LANDSCAPE NURSERY OR GARDEN CENTER

Qualified individual wants to buy profitable landscape nursery or garden center anywhere in U. S. that is growing rapidly in population. Have substantial capital for down payment. Desire to inspect business in June. Possession not necessary until fall or winter. Please include complete information on business in first reply. Address replies to Box 600, care of American Nurseryman.

FOR SALE

14-acre nursery on main highway in growing suburban area southeast of Flint, Mich. 2-bedroom home, automatic heat; double garage; 1½-story, double-walled tile storage and packing house; office; implement buildings; tools, irrigation equipment, 3 tractors, etc.; small orchard. Ideal location for general nursery. Presently stocked with several thousand lilacs; buyer need not purchase all of specialized stock. Owner deceased. Will sacrifice for quick sale to settle estate. Land, buildings, equipment all in excellent condition. A real buy. For details write: UPTON NURSERY
Goodrich, Mich.

FOR SALE

PERENNIAL AND PROPAGATING NURSERY

A going business in booming southwestern Ohio. Over 25 years at this location.

10 acres unsurpassed soil, fine Cape Cod residence, greenhouses, sales and packing buildings. All at edge of town on heavily traveled interurban state highway, a few minutes from great turnpikes running north, south, east and west.

Owner retiring. Possession this spring or when desired. Pay out of annual income. Down payment of about \$22,000. Write Box 584, care of American Nurseryman.

FOR SALE

NURSERY

25 miles from Cincinnati, on federal and state highways, residences, greenhouses, garages, sheds and other outbuildings, lakes and a creek; well planted; owner wants to retire. Send replies to Box 594, care of American Nurseryman.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE

LANDSCAPE NURSERY

Excellent business opportunity. Good location, good merchandise, good reputation. Write to P. O. Box 65, Daytona Beach, Fla.

nurseryman, died in the Palo Alto hospital March 29. He was a native of Italy and had been in the nursery business at Philadelphia, Pa., for nearly 50 years. W. B. B.

OREGON NOTES

Speaker at the April 20 meeting of the Sunset chapter, Oregon Association of Nurserymen, was Jock Brydon, Brydon's Nursery & Seed Store, Salem. His topic was "Merchandising in the Retail Nursery." A film, "Soil Fumigation," was shown by Robert Zenger, field representative for Van Waters & Rogers. The dinner meeting was held at the Forest Hills Country Club, Cornelius.

The Clackamas chapter of the O. A. N. is planning a nurserymen's field day at Oregon State College, Corvallis, for early July.

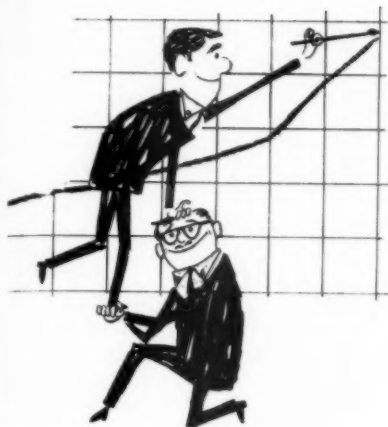
Franz Kruschke, Kruschke Greenhouses, Clackamas, has been allowing Clackamas county agents to experiment with the use of various new chemicals for weed control in his heather plantings. Three different materials are being tested: Karmex, Neburon and Simazine, at the rate of one pound and two pounds to the acre.

Attending a March meeting of nurserymen and state agricultural officials of Oregon, Washington and California held at Klamath Falls, Ore., were Avery Steinmetz, Portland Wholesale Nursery Co., Portland; Wayne Melott, Carlton Nursery, Forest Grove; Martin Holmason, Pacific Coast Nursery, Portland; John McIntyre, A. McGill & Son, Fairview, and Erwin Fowler and Bert Miller, both of Milton Nursery Co., Milton-Freewater. Wayne Melott also attended a subsequent meeting of nurserymen and state officials that was held at Sacramento.

The printed program for the recent Multnomah "Parade of Gardens" held at Gresham was supplied again this year by the California Spray-Chemical Corp., Richmond, Calif. The program paid tribute to Charles Skinner, Pacific Native Nurseries, Portland, for his work as designer of the 1959 theme garden and to Harold (Bud) Tooze, Tooze Floral Service, Portland, general chairman of the show.

Hazel Dell Gardens, Canby, has purchased 30 acres of land adjoining the present location.

George Caldwell, manager, Start Street Nursery, Portland, is back on the job after a serious illness, though he is still not completely recovered. C. H. P.



KEEP THAT SALES
VOLUME ZOOMING
UPWARD . . .

Plan a Prominent
Display Ad for



A. A. N. CONVENTION NUMBER

— the trade's established buying guide —

to be published July 15

Forms close June 18

REACH 10,000 NURSERYMEN WITH THIS SPECIAL ISSUE

This one issue — the only "special" issue we publish — can be the most important issue of the year for you. It has long served the trade each year as a convenient buying reference, because it contains advertising on practically every type of nursery supplies, equipment, stock and resale merchandise of interest to the trade. **OUR READERS RETAIN THIS ISSUE FOR YEAR-ROUND CONSULTATION;** you will want to have your firm prominently represented in it.

HERE'S WHY YOUR ADVERTISING IN

AMERICAN NURSERYMAN

Puts You Ahead Saleswise:

- These readers pay \$5.00 per year to receive the magazine, so you know they have a vital interest in it and read each issue thoroughly. In fact, they rely on this magazine for authoritative information on all phases of the nursery business.
- The magazine covers a vigorous, rapidly growing industry, and products of interest to this trade receive avid attention.

- The magazine's circulation is carefully screened and only bona fide trade members are permitted to subscribe.

- It reaches nearly 10,000 commercial nurserymen twice each month—including 90 per cent of the members of the American Association of Nurserymen, plus a very high percentage of other nurserymen who belong only to the various state associations.

**Plan Right Now to Have Your
Firm's Advertising Message in
Prominent Display Space in the
JULY 15**

A. A. N. CONVENTION NUMBER

Forms close June 18!

AMERICAN NURSERYMAN

343 S. Dearborn St. — Chicago 4, Ill.

ONE TIME PEAT POTS

Better, Sturdier, Peat Pots



SHAPE HOLDING PEAT POTS

Made from the finest horticultural peat moss with nutrients added which are released slowly to insure sturdy, healthy growth.

PRICES PREPAID on 150 Pounds or more
anyplace within U.S.A., excluding Alaska

4 in.	500 to 2,000 2,500 to 9,500	cs. Standard wt.	Azalea wt.
		500 \$29.25M 32#	\$28.75M 32#
		\$26.75M	\$26.25M
3 in.	1,000 to 9,000 10,000 to 49,000	Square	Round
		1,000 \$18.25M 37#	\$13.25M 25#
		\$17.00M	\$12.25M
2 1/4 in.	2,000 to 18,000 20,000 to 74,000	Square	Round
		2,000 \$11.00M 36#	\$ 7.25M 29#
		\$10.25M	\$ 6.75M
1 3/4 in.	2,500 to 17,500 20,000 to 72,500	Square	
		2,500 \$ 7.00M 28#	
		\$ 6.50M	
NEW!!!		Lower Cost	THINLINE
3 in.	1,000 to 9,000 10,000 to 49,000	Square	
		1,000 \$14.50M 34#	
		\$13.25M	
2 1/4 in.	2,500 to 17,500 20,000 to 72,500	Square	
		2,500 \$ 7.50M 32#	
		\$ 7.00M	

Write for volume and 100 pk. prices.

ADVANTAGES OF THE ONE-TIME PEAT MOSS POT

- COST LESS**—one-time pots are sterilized; cost of washing, sterilizing, picking up and re-storing of pots eliminated.
- SAVES LABOR**—planting procedures speeded up when one-time pot is planted with the plant. Light weight pot facilitates use by women and transportation costs are less.
- BETTER GROWTH**—porous pot wall gives better drainage and better root aeration. High moisture holding capacity of peat moss maintains uniform moisture.
- EARLIER PRODUCTION**—more rapid growth reported by growers means more rapid turnover of bench space. Plant "takes off" when planted as there is no root shock or set-back.

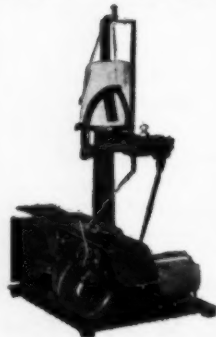
Order now and write Department B for free literature

THE DAO CORPORATION

P.O. Box 659 Terre Haute, Indiana

NEW FELINS AUTOMATIC TYER FOR TYING NURSERY STOCK — CUT FLOWERS

Fast - Efficient - Rugged



Model F-4-N

- Geared to 80 ties per minute.
- Adjusts automatically to any size bunch up to 19 ins. in circumference.
- Places a uniform tie around a bundle making a firm nonslip knot.
- Lightning fast. Ties roses, glads, seedlings, cut flowers, as well as any other type nursery stock.
- Uses cotton twines 3 to 24-ply, tapes and braids, fine sisal and jute.
- **WRITE FOR CIRCULARS AND PRICES NOW.**

FELINS TYING MACHINE CO.

3351 N. 35th St.
Milwaukee 16, Wis.

WHY PAY MORE FOR MARKERS?

15¢

AS ILLUSTRATED

with 15" long support,
in quantities of 50.

When you can get a high-quality STEEL cardholder, rust-proofed and painted a forest-green, baked enamel finish, complete with wire support, for only 15¢ each? Ideal for identifying price, etc., on shrubs, evergreens and other items. Serves the purpose of cardholders costing many times as much.

Order the quantity you need now. Ask for prices of weatherproof paper or aluminum insert cards.

WORTH MANUFACTURING CO.

Stevens Point, Wisconsin

NURSERY TAGS

"Weather Resistant"

- Made of Water-resistant Tough Tag Board
- All White, Easily Marked
- 8 Colors
- 9 Sizes and Styles
- Sheets for Typewriting

Size 1x8 Ins.	
Prices per 1000—White Tag Stock	
1000 to 4000....	\$1.50
4000 to 9000....	1.30
9000 to 10,000....	1.15
20,000....	\$1.05
50,000....	.85
100,000....	.80

Write Today for Prices and Samples
PREMIER SOUTHERN TICKET CO., INC.
1621 Dana Ave. CINCINNATI 7, O.

PORTLAND BUYING SURVEY

A marketing survey to determine how homeowners in the Portland, Ore., area buy their trees, shrubs, plants and garden supplies was conducted during the summer of 1958. The total purchases made by the interviewed homeowners were reported in a recent issue of the Oregon Ornamental & Nursery Digest, published by the agricultural experiment station, Oregon State College, Corvallis.

A questionnaire designed with aid of nurserymen was used in the survey to determine what homeowners buy, how much they spend and where they prefer to buy. Questions were further designed to determine the influence of value of home, age of home, length of residence and family income. The records of 505 homeowners in the city residential area and in the more thickly populated areas adjacent were gathered by a Portland research firm.

The 12-month study, which included the fall of 1957 and the spring of 1958, indicated that the 505 homeowners spent \$4,433 for nursery stock (trees, shrubs, small fruit plants) and \$4,787 for seeds, plants, ground cover plants and bulbs. Fertilizer, peat moss, pesticides and supply sales reached \$8,939, while \$11,177 was spent for hand tools, power tools, sprayers and hose, making a grand total of \$29,336.

Of the \$4,433 worth of nursery stock sold, sales by nurseries totaled \$3,212; garden supply stores, \$310; supermarkets and other food stores, \$194; florists, \$160, and roadside stands, \$154.

In the second category—seeds, plants, bulbs and ground covers—the sales again were led by nurseries with \$1,442, and garden supply stores followed closely with \$1,247. Florists and greenhouses were next with \$506; department, hardware and variety stores, \$501, and supermarkets and other food stores, \$493.

Garden Store Sales

Garden supply stores led the third sales group of fertilizers, peat moss, lime, pesticides and supplies with \$2,722 worth of sales, and a miscellaneous group (principally lumber yards and fuel dealers) was second with a \$2,447 sales record because of these firms' sales of sawdust, lime and building materials used for landscaping. Department, hardware and variety stores' sales totaled \$1,590; food stores, \$998, and nurseries were last with only \$695.

Sold mainly by hardware stores, department stores and specialty firms were hand tools, power equip-

SIMAR

THE ORIGINAL SWISS ROTARY TILLER

Announces **THREE NEW MODELS . . .**

The Hackney



**THE HACKNEY MODEL
THE MORGAN MODEL
THE CLYDESDALE MODEL**

The hackney horse, after which the rotary tiller illustrated at the left is named, is well known for being a small, compact, agile workaday horse.

Simar's Hackney Rotary Tiller is the smallest-size tiller available for general use—particularly good for greenhouse bench work, where maneuverability is essential. This is a 5-H.P., 2-speed and reverse tiller equipped with clogproof, shockproof digging tools. 15-in.-width cut. Reverse-A-Matic design accommodates a full line of attachments.

SEE YOUR LOCAL DEALER FOR COMPLETE SPECIFICATIONS, OR WRITE:

E. C. GEIGER CO., Box 270
North Wales, Pa.

UNITED STATES DISTRIBUTOR

ment, sprayers and other accessories for yard and garden work. These items called for two and a half times as much expenditure as nursery stock for the average homeowner.

Eliminating the power tool and garden equipment group, the total spent for nursery stock, seeds, plants and supplies by the 505 homeowners sampled was \$18,159. Of this, nurseries sold \$5,348; garden supply stores, \$4,279; miscellaneous dealers, \$2,488; department, hardware and variety stores, \$2,199, and supermarkets and other food stores, \$1,685. Roadside stands and door-to-door salesmen accounted for sales of \$300 and \$140, respectively.

Of the \$4,433 total sales by the interviewed homeowners for nursery stock, the largest amount spent for a specific type of stock was \$1,697 for broad-leaved evergreen shrubs. Sales of shade and ornamental trees were next with \$830. Purchases for roses amounted to \$806; coniferous shrubs, \$469; deciduous shrubs, \$355; fruit and nut trees, \$349, and small fruit plants, \$27.

GEORGE J. WECHSLER recently was elected vice-president of Solo-Serve Nurseries, Inc., San Antonio, Tex. He is also general manager and a director of the corporation.



BESELER TREE SLINGS

**Save Time — Save Trees
Prolong the planting season.**

- Less undercutting and less lacing.
- Adjustable for diameter and depth.
- Quickly attached and easily removed.
- Less skill required to dig and plant.
- For sandy, wet or any soil condition.

Write for folders and terms about the BESELER TREE MOVING SYSTEM.

TREE MOVING EQUIPMENT CO.

871 Edgerton St.

St. Paul 1, Minn.

FAFARD



peat moss

from two of the richest bogs ever discovered in Canada

PURE SPHAGNUM PEAT MOSS
98% organic

PRICED ATTRACTIVELY
to give you maximum profits

In good-looking packages, polyethylene coated. 1 peck bags to 7 cu. ft. bales. Also European peat moss in 7, 6 and 4.5 cu. ft. bales.

peat humus

PRICED LOW
to put you in an excellent competitive position

CHOICE OF SIZES
plastic-lined bags 2 1/2 lb. to 100 lb. as well as in bulk

FAFARD

CONRAD FAFARD, INC.
P. O. Box 774 LOcust 7-33 16
Springfield, Mass.

ABSTRACTS OF RECENT RESEARCH

MAPLE GALL MIDGE

Although the maple gouty vein gall midge apparently is not a serious threat to the health and vigor of sugar maple trees, it often disfigures the brilliant, ornamental fall foliage and detracts from the beauty of the trees. The biology and control of this pest is reported by Leonard Haseman in Research Bulletin 602 of the University of Missouri.

A rapid cell development is stimulated along the lower edges of the veins of the leaves by the tiny larvae hatching from eggs laid by the midge soon after the leaves unfold in the spring. This results in gouty thickenings, which in a few days push upward, almost closing off pockets along the upper surface of the veins. The larvae feed and develop in these galls where they are protected from parasites and predators, as well as insecticides. Leaves with only a few galls seem to function normally, but many leaves form so many galls that they become knotty, cease to function and usually drop during the summer.

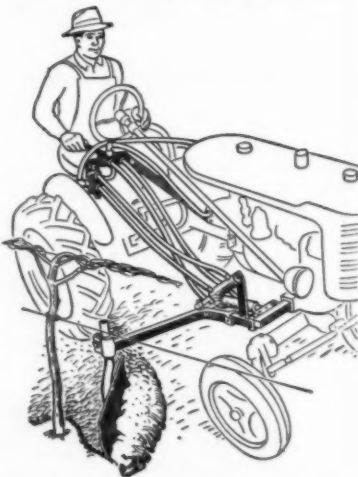
The insect spends the winter in the fully grown, reddish larval stage in the ground litter mostly beneath the tree on which it developed the previous summer. The larvae spin cocoons in late winter and pupate in early spring, and the adults emerge to deposit reddish eggs in clusters of 15 to 100 in the pubescence on the lower surface of expanding young maple leaves in April. The eggs hatch in a week or so, and the larvae promptly crawl to the upper side of the leaf, where formation of the galls soon occurs.

Although the midge larvae are not seriously affected by winter temperatures and moisture, unfavorable weather during emergence of the adults and the period of egg laying is probably the most important natural check on the pest. Other enemies, mites that feed on the eggs and parasites that attack the larvae in the ground litter, serve to reduce the insect population, but they alone do not sufficiently prevent damage to leaves.

Two methods of using insecticides for control of the gall midge were developed by Mr. Haseman. Since most of the larvae escape from the dried leaves in the fall, the simplest treatment is an application of insecticide to the ground litter. In ex-

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perimental plots of 42 square feet, two ounces of 50 per cent chlordane emulsion in two gallons of water, three ounces of 40 per cent toxaphene in two gallons of water and four ounces of 50 per cent DDT powder all completely destroyed the insects in the ground litter.

Sprays containing DDT, chlordane and methoxychlor, applied just as the eggs were hatching, were effective in preventing gall formation; when these sprays were applied later, however, they were not effective, although some larvae were killed within the galls. The drawback to the use of a foliage spray is the difficulty in determining the short period of three or four days when the eggs are hatching and the spray is effective. Otherwise, Mr. Haseman concludes, a chlorinated hydrocarbon spray or one of the newer organic phosphate insecticides should give protection to the maple foliage. I.

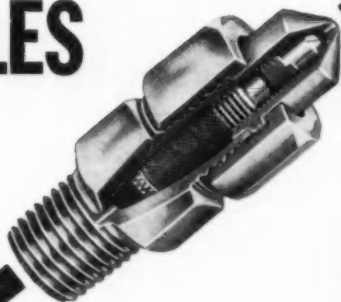
SUGAR PINE SEED TESTS

Research at the University of California, Berkeley, indicates that seed storage conditions influence the survival of seedlings of the sugar pine, according to an article by E. C. Stone in a past issue of California Agriculture. In a series of laboratory studies, intact seeds were germinated in the bottom of small, shallow dishes filled with vermiculite. The temperature was maintained at 77 degrees Fahrenheit, and water was added at regular intervals. Whenever seed coats were removed, germination was done aseptically to prevent loss of the seedlings from molds.

Seedling survival was also tested for seeds germinated in the greenhouse in flats of sandy loam 18 inches deep with different amounts of soil moisture. In the greenhouse, temperatures were 68 degrees F. at night and ranged up to 100 degrees F. during the day. The pine cones were dried in an oven at 120 degrees F. until the scales opened and the seeds fell out. Seeds were dried at room temperature to an average moisture content of 10 per cent and stored in desiccators at temperatures of 77 degrees, 36 degrees and 0 degrees F. Seeds were stratified by storing them at 36 degrees F. for 90 days in moist vermiculite.

When the seeds were fresh and unstratified, germination was slow. At the end of three months, less than 50 per cent of the seeds had sprouted. When the seeds were stratified, germination was rapid, with 96 per cent germinated after seven days. Removal of the seed coats was as

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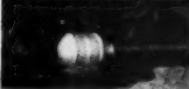
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effective as stratification as far as percentage of germination was concerned.

After a 2-year storage at 36 degrees F., intact, unstratified seeds germinated more slowly and poorly than did fresh seeds under similar conditions. However, after stratification, 2-year-old seeds behaved like fresh seeds. Removal of the seed coats increased germination, but not to the extent that was noted with fresh seeds.

The effect of storage temperature was not apparent after the seeds were stratified, but, when seeds were planted without stratification, storage temperature was important. Germination of fresh seeds with seed coats removed was 96 per cent in seven days. In seeds stored at 0 degrees F., germination was complete in 18 days, but was only 91 per cent. Seeds stored at 36 degrees F. showed an 85 per cent germination in 20 days. In seeds stored at 77 degrees F., germination was reduced to 55 per cent and was complete in 20 days.

Two-year storage at 36 degrees F. had a marked effect on root elongation after germination. Seedlings from fresh seeds had roots three inches or longer after 30 days in 98 per cent of the cases, but this was true of only 38 per cent of the seedlings from stored seeds.

Storage conditions had a pronounced effect on subsequent root elongation, an effect that was not altered by stratification. Roots three inches or longer were developed in 13 days by 98 per cent of the fresh seeds. After more than 30 days, an equal development was shown by only 82 per cent of the seeds stored at 0 degrees F., by 38 per cent of those stored at 36 degrees F. and by 25 per cent of those stored at 77 degrees F. Thus, the number of seeds germinating was unaffected by two years' storage if the seeds were stratified, but the ability of the seedlings to produce good root systems was reduced in proportion to the temperature maintained during the seed storage.

To measure potential seed survival in the field, fresh seeds and those stored two years at 36 degrees F. were put in the soil-filled flats in the greenhouse. Flats were watered until the soil was saturated. Half of the flats were not watered again after that; the others were brought to field capacity three times a week.

After two months, approximately 90 per cent of the fresh seeds were still alive in both watered and unwatered flats. The stored seeds did not fare so well. Only 70 per cent of these seeds were still alive in the

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flats that had been watered regularly, and only 20 per cent in the flats that had been allowed to dry out. Thus, storage had a great effect on the subsequent performance of the seeds, especially under adverse conditions. C.

ROSE BLACK SPOT CONTROL

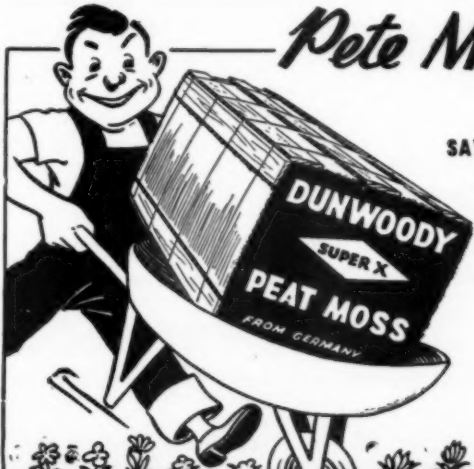
[Continued from page 8]

spot control than was the dust fungicide and increased the weight of the bushes more. The various formulations of maneb fungicide had a longer-lasting effect, or residual action, than the others, especially when an added spreader sticker (Triton B-1956) was used. The use of the spreader sticker, Ortho Spray Sticker, was also advantageous with captan spray.

Treating with Manzate spray having the Triton B-1956 spreader sticker was compared to the treating with Manzate spray having only the spreader additive Santomerse, and for this fungicide the spreader sticker was of considerable benefit to bush growth.

In the case of Phalton spray, including the spreader sticker did not make much difference in bush size, although it apparently gave better control of black spot at the end of the season. Spraying with Phalton

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alone appeared to be good during the time when the treatments were made regularly each week, but apparently did not have the desired residual action during the biweekly applications.

Mixing of maneb and Phalton appeared undesirable. Although the mixture did control black spot and did serve as a potential if there had been mildew, slight yellowing and

burning showed in the foliage during the summer months.

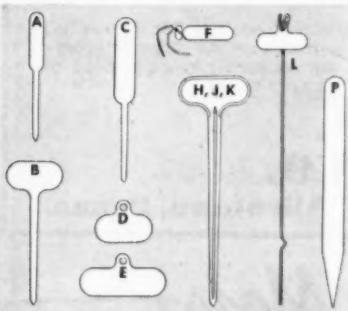
As in previous years, the control of black spot gave more and better foliage and increased the size of the bushes, as the records show. Again noticeable when the bushes were dug, the treated bushes had better roots than the check plants. Examination of the starch content in the canes revealed a greater amount of

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starch in bushes from the best plots in comparison with bushes in the check plots.

As mentioned previously, powdery mildew did not become a factor in the experiment, even in the untreated plots; so no evaluation could be made on that point. However, Phaltan, Thylate and compound U-9547 were possible controls, while maneb and captan were regarded in other tests as poor for powdery mildew control.

With many of the rose fields being sprayed, it was possible to make observations of other things than were actually under test. It was found that when maneb and Triton B-1956 were used in greater amounts than the amounts recommended for either one, there was a tendency for foliage injury; so it seemed necessary to measure the materials carefully. Such was not the case with captan fungicide; in previous tests it was found safe even at twice or three times the normal concentration.

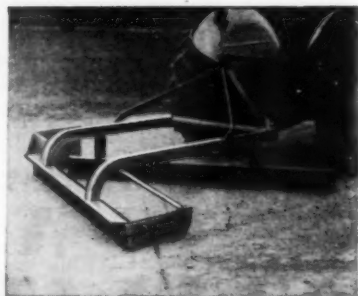
In some of the rose fields, spraying with maneb was not started until late in the season; yet, in certain instances it gave remarkable results which were evident within six or seven weeks. When dust fungicide was used in the past, results were generally poor unless treatments were started well in advance of the appearance of black spot. Thus, the sprays bring the prospect of the grower's actually being able to wait until black spot is evident before beginning treatment. Another possibility is that the applications may not need to be so regular nor so frequent if the disease is under control and the weather not favoring its spread.

Protection Against Freezing

Subsequent observations of the bushes revealed that the best spray treatments during the field growth led to a degree of protection against freeze damage, and this was seen both in the fields and in the gardens when bushes were exposed to winter weather. The well-sprayed bushes retained their foliage longer into the winter than did the others. Then, for those bushes put in storage, there were less mold and die-back than for bushes when black spot was inadequately controlled.

For the 1958 season it was advantageous to continue the spraying until the middle part of October rather than to terminate the schedule earlier.

With the degree of black spot control obtainable under field conditions during the past two years, as seen both in the experiments and in the larger field operations, it is highly



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possible that black spot and its related troubles may become secondary in the problems of growing and caring for roses. At least the newer spray materials and methods have done much to improve the situation for roses in the fields and also in gardens.

NEW FUNGICIDES CONTROL BLACK SPOT ON ROSES

Scientists have obtained nearly complete control of black spot, the nation's most destructive rose disease, by using two new fungicides, the United States Department of Agriculture has reported. The fungicides — Phaltan (n-trichloromethylthiophthalimide) and Cyrex (n-dodecylguanidine acetate)—are organic chemical compounds.

Applied to seriously infected foliage of rose plants, each fungicide was used as part of a combination spray in experiments conducted in 1957-58 at the U. S. D. A. agricultural research center, Beltsville, Md.

The combination spray included either of the miticides Aramite or malathion, plus both of the insecticides DDT and lindane. These chemicals commonly are used in combination sprays and were found to have no effect on the action of the fungicide. Their insect-killing power is not reduced by presence of the fungicide. Combining of different chemicals in one multipurpose spray was developed through U. S. D. A. research that began in 1950.

The work on roses is being carried on by Dr. John G. Palmer, Thomas J. Henneberry and Robert V. Travis of the U. S. D. A. agricultural research service. In 1957 experiments, no injury to the rose plants after application of the combination sprays was observed. In 1958 experiments, the scientists noted the stunting of new rose plant growth after treatment with a combination spray in which Cyrex was used. Reasons for this effect have not yet been determined.

Zineb, another fungicide used in the experiments as part of combination sprays, provided considerably less control of black spot infections than either Phaltan or Cyrex.

The combination sprays were applied weekly from July 17 until September 17 in 1957, and from June 10 to September 9 in 1958, during periods of greatest black spot infection. Applications were made with a 2-gallon compressed-air sprayer, at 60 pounds per square inch pressure. The scientists will make further evaluations before rates of application are released.



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Multnomah Garden Show Features Nursery Exhibits

By Charles H. Potter

An impressive theme garden demonstrating the striking effects to be gained with garden lighting and the individual exhibits of many nurserymen, landscape gardeners, florists and garden clubs drew an estimated 40,000 visitors to the 1959 Multnomah Parade of Gardens, held April 15 to 19 at the Multnomah county fairgrounds, Gresham, Ore.

Duane (Spike) Hennessy, fair manager, and Mrs. Eugenia Raebel, show superintendent, gave much credit for the event's success to Harold (Bud) Tooze, Tooze Floral Service, Portland, general chairman of the 1959 show; Charles Skinner, Pacific Natives Nursery, Portland, design supervisor; Harold Miller, Portland landscape gardener, assistant coordinator, and Marshall Gifford, Gifford's Flowers, Portland, who was chairman of the florists' portion of the show.

"Garden Beauty at Night" was the title of the theme garden in the main nursery building. An estimated \$200,000 in trees, shrubs and perennials went into the display, plus garden accessories, a "house" and a patio. Nurserymen and landscape gardeners installed special lighting effects which brought unusual beauty to the garden.

Lake Landscape

At one end of the huge main building, a mirror lake was set in a beautiful landscape of choice shrubs, trees, rocks and perennials. Used in the skillful job created by Charles Skinner and his many assistants were weeping willows, weeping birches, weeping elms, vine and Japanese maples, Camperdown elm and a wide array of rhododendrons, azaleas and other flowering and green shrubs. Because of the cool weather recently, many of the shrubs were taken into greenhouses to be forced into flower for the show.

At one end of the lake was a spreading weeping willow that dominated that portion of the garden. Beautiful rocks added to the lovely effect. Hanging in the larger trees about the buildings were cages containing songbirds.

Deep borders filled the areas across the walkways from the lake. Toward the back of these lovely bor-

ders were trees and larger flowering shrubs, with other flowering shrubs, evergreens and perennials in the front. Predominant in the borders were primroses and many varieties of azaleas in full bloom. One of the accents in the garden was a Japanese shrine made of stone. Mixed throughout the garden were many of the native shrubs of the northwest.

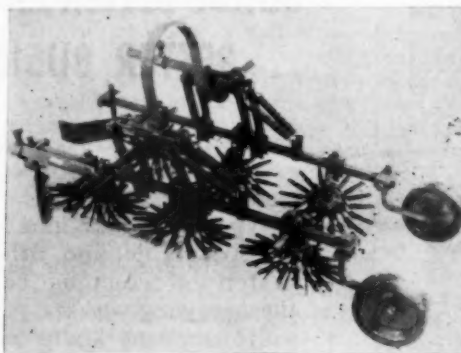
At the opposite end of the building from the lake and to one side was a structure simulating the back portion of a home. The large patio adjoining it was complete with attractive summer furniture. Sweeping

from the walkway to the patio was a wide expanse of lawn. The border of shrubs and trees approached the house on both sides.

Individual Displays

Seventeen nurseries and landscape gardeners occupied the "T" which adjoins the theme-garden building, and each entered an outstanding display. Portland Camellia Nursery, Portland, used a delightful combination of viburnums, rhododendrons, red and green cut-leaved maples and large camellias in full bloom to make a beautiful display. In the foreground was a small pool with floating camellia flowers.

Sharp's Nursery, Portland, installed a unique woodland scene, using a replica of a wood cabin and rail fencing to set off native plants. Even the woodchopper's hatchet was at hand, stuck in a stump. George's Garden, Portland, entered a large, neat display, using a pleasant combination of many different kinds of plants and rocks. In the center of



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the display was a small hill planted from top to bottom.

Surface Nursery, Gresham, had a beautiful waterfall gushing from a hill of evergreens, the water tumbling into a pool at the base of the falls. Unknown Warrior rhododendrons in gorgeous full bloom, flowering azaleas and daphnes were the main plants used in this display.

Seven Dees Nursery, Portland, placed a Camperdown elm for a focal point. Azaleas, rhododendrons and other shrubs completed a colorful display. Sunset Landscape Gardeners, Portland, featured an old mill with a water wheel. A pool below the mill was surrounded by azaleas, tulips and shrubs.

Abbott's Green Thumb, Portland, displayed a pathway leading between beds of azaleas and andromedas. A large flowering crab apple dominated the exhibit. Two pottery cranes added a dash of color, and some plastic green thumbs in the display brought smiles to those who saw them.

Don Schmidt Nursery, Portland, centered its display around a blue pool, which was planted with beds of azaleas and daphne. A solid hedge of yews surrounded the pool planting and a small statue that stood to one side. May's Landscape Nursery, Vancouver, Wash., had a neatly landscaped planting of various

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shrubs, most of which were in full flower.

Edgerton Landscape Service, Portland, entered a mixed planting of shrubbery, in which lavender azaleas predominated. Hugh Tyler used a border of mixed shrubs and flowering prunus. Set in a lawn area was a half-moon bed of pansies surrounded with pink geraniums and yellow marigolds.

The Clarkes, Clackamas, displayed their specialties, pansies and primroses, arranged in beds about a pool. The beauty of the display was enhanced with rocks and sod. Esch Nursery, Portland, used several varieties of rhododendrons and azaleas together with other flowering and green shrubs to complete an attractive display.

In the garden exhibited by West Side Landscape Co., Portland, stepping-stones led to a birdbath. A weeping willow, Oregon grapes and other lovely shrubs were in the display. F. A. Doerfler & Son Nursery, Salem, placed large camellias in the background of their display, along with other shrubs and carpet plantings.

Rhododendron Nursery, Portland, massed beautiful, large, full-flowering rhododendrons as a colorful background for the azaleas it displayed. Kelley's Landscape Nursery, Portland, used a tulip tree in flower for a point of interest in the firm's display, which also featured a large light pink azalea and a birdbath.

An outside display of distinctive beauty was that of the Switzerland Gardens, Portland. The unusual entry was an American-Swiss model garden, which included a Swiss chalet with a water wheel, a stream and a miniature lake. Alpine plants were used with rocks and moss in an attractive combination that caught the attention of all those passing by.

A & A Clay Pots, Portland, placed pansies, yellow marigolds, pink azaleas and pink geraniums in its display, which was surrounded by a wall of clay pots.

Other Features

Nurserymen and landscape gardeners added a new feature to the show this year—an educational building, in which Ray Collier, Collier Spray & Landscape Service, Portland, had charge of a group of nurserymen and landscape gardeners who demonstrated pruning, spraying and planting techniques.

The florists of the area occupied a large building, where many firms participated in presenting, individually or jointly, some beautiful dis-



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plays and arrangements. One of the feature exhibits was that of J. Peterkott & Co., Portland, which showed a number of cymbidium orchid plants bearing about 1,000 flowers.

There were special sales buildings where many different kinds of plants could be purchased. Various garden clubs and individuals entered displays and arrangements in another of the seven buildings used for the annual show.

The entire exposition was a project in which the full cooperation of the Multnomah county fair board was received. The fair board supplied brick, rock, sawdust, sod and other materials to enhance the various displays, plus the labor needed to do the heavy work.

FERTILIZATION STUDIES

[Continued from page 13]

in need of more efficient production methods at a low cost. A number of problems have been encountered in container growing, the more important ones being overwintering, soil mixes and fertilizing.

Fertilization of Prime Importance

Fertilization of nursery stock is of prime importance, and there is a wide range of opinions and findings on the best method to use. Of the three major elements, nitrogen has the most influence on vegetative growth; hence, with nursery stock as well as other plants, the amount and quality of growth are usually closely related to the amount of nitrogen available to the plant.

At present a number of different fertilization programs are being used. Some growers are adding a complete fertilizer to the soil mix and then feeding about every three weeks with a water-soluble fertilizer such as 20-20-20. Others fertilize every two weeks, alternating a dry fertilization with a liquid fertilization.

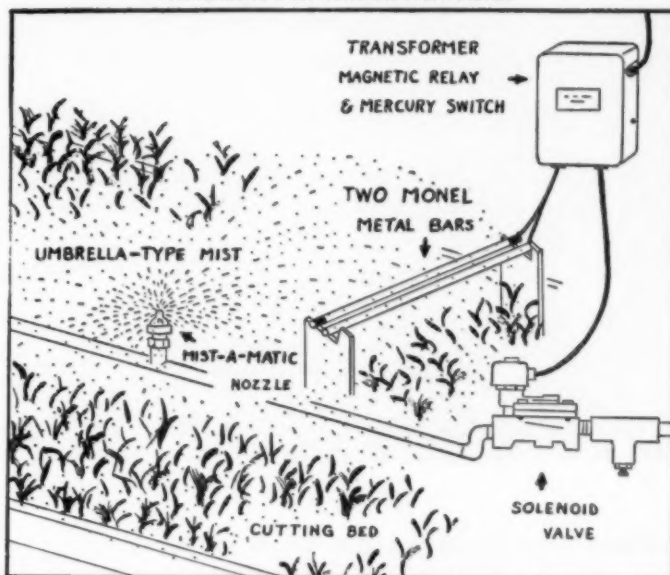
The liquid feedings are complete soluble fertilizers, such as Ra-Pid-Gro or similar products. The dry feedings are generally nitrogen, with nitrate of soda or ammonium sulphate being used. Other nurserymen have obtained best results when following a fertilization program of applying a dilute soluble fertilizer every third irrigation, which averages about once every four or five days at the peak of the growing season.

The principal purpose of this study was to determine if plants growing in containers could be readily grown for at least one year without frequent applications of a

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complete water-soluble fertilizer and to determine if slowly available forms of nitrogen, phosphorus and potassium added to the soil mix at planting time would supply sufficient nutrients the first growing season to produce a high-quality plant of reasonable size.

Urea-formaldehyde Used

Urea-formaldehyde (38 per cent available nitrogen) was used as a source of slowly available nitrogen. This material is of such a nature chemically that it is slowly broken down; thus, nitrogen is gradually released for plant nutrition over a period as long as four months or more. Other synthetic forms of nitrogen are extremely susceptible to leaching because they are readily water soluble; hence, leach out with heavy watering or frequent rain occurs.

Potassium frit likewise is a slow-release type of potassium, containing 35 per cent potassium. This material is produced by fusing an alkaline form of potassium with silicacious material. The finished product resembles natural-occurring potassium minerals but is more rapidly weathered. Potassium frit is capable of supplying potassium at an adequate rate for prolonged periods, as much as eight months in some studies, even though heavy leaching conditions were present. Superphosphate was used as a source of available phosphorus.

Why Less Fertilizing

The chief reasons for eliminating frequent fertilization of container-grown nursery stock are (1) to eliminate the need for equipment to inject fertilizers into the irrigation water; (2) to reduce the amount of fertilizer required; (3) to provide a relatively uniform supply of nutrients to the plant throughout the growing season; (4) to enable the grower with a limited number of container plants to produce good quality plants at a minimum of cost, and (5) to reduce labor costs.

The following four species, each being important as plants for container growing, were selected for the first part of this study. *Pyra-cantha coccinea lalandi*, six to nine inches from cuttings; *Ilex crenata convexa*, 2¼-inch pots; *Berberis julianae*, 2¼-inch pots, and *Abelia grandiflora*, 2¼-inch pots. One hundred and fifty plants of each of these species were divided into lots and subsequently canned, using one basic soil mix of 60 per cent sterilized soil, 20 per cent acid peat and 20 per cent sand. To this was added

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six pounds of 20 per cent superphosphate per cubic yard of soil mix.

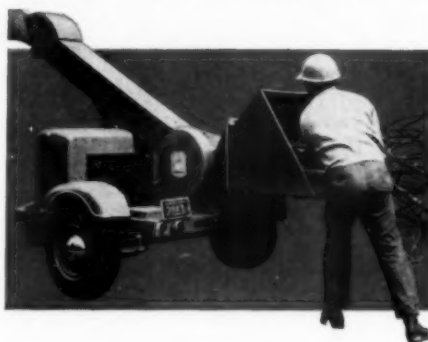
Treatment A was the basic soil mix; treatment B was the basic soil mix plus three pounds of potassium frit per cubic yard of soil mix, and treatment C was the basic soil mix plus four pounds of urea-formaldehyde (38 per cent nitrogen) and three pounds of potassium frit (35 per cent potassium) per cubic yard of soil mix. All plants in this study were grown in gallon cans.

Different Fertilization Programs

A different fertilization program was carried out on plants in each treatment. Plants in treatment A received an application of water-soluble fertilizer every three weeks throughout the growing season, at the rate of six pounds of 20-20-20 to 100 gallons of water, with a total of eight applications the first growing season. Plants in treatment B received an application of ammonium nitrate (equivalent to nitrogen in treatment A) every three weeks at the rate of three and six tenths pounds to 100 gallons of water. Treatment C received no further application of fertilizer, except one heaping teaspoon of urea-formaldehyde nitrogen to each gallon container July 18, 1958.

Plants in each treatment were

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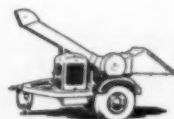
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then divided into two lots, with one group of the plants being grown in full sun and one half of them being grown in one-third shade. Shade was provided by placing the plants in a saran screen house. All containers were placed on black plastic to keep down weeds and grass. Twenty plants of each kind were in each treatment, making a total of 120 plants of each kind in the experiment. All plants were canned April 17 and 18, 1958.

Three evergreen plants, one broad-leaved and two narrow-leaved, were used in the second part of the work. The plants used were Pinus sylvestris, 2-year seedling, six to eight inches; Prunus laurocerasus schipkaensis, 2 1/4-inch pots, and Taxus cuspidata capitata, 2-year seedling, three to six inches. These plants were canned April 15, 1958, in a soil mix of 50 per cent soil and 50 per cent fine ground Styrofoam with 20 per cent superphosphate added to the mix at the rate of six pounds per cubic yard.

Two Treatments Used

Two treatments were used. Treatment D was a water-soluble fertilizer (20-20-20) applied every three weeks throughout the growing season. Treatment E was the basic soil mix with the addition of four pounds of urea-formaldehyde and three pounds of potassium frit to each cubic yard of soil mix. Plants in treatment E received no additional fertilizer during the growing season except one heaping teaspoon of urea-formaldehyde nitrogen per gallon container July 18, 1958. The urea-formaldehyde was applied on the soil surface, and no attempt was made to incorporate it into the soil. Thirty plants of each species were used in each of the two treatments.

Data were taken at the end of the first growing season, and growth measurements were made on individual plants. The measurements made included the average number of breaks per plant, average amount of growth per break (in inches) and average total growth per plant. Average height and number of branches were measured on Scotch pine. All treatments were replicated five times, and all data were statistically analyzed although not presented in this report since differences were not significant. No data were taken on Abelia grandiflora, just observations made.

Pyracantha made extremely good growth regardless of the fertilizer applied, with growth being nearly equal in all fertility treatments. Plants growing in one-third shade

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produced three to 13 inches more average total growth per plant, but the number of laterals per plant was not influenced by shading or source of nitrogen fertilizer. The amount of growth per lateral for the first growing season was only slightly influenced by treatments, with shaded plants averaging two inches more growth per lateral than those in full sun, and with plants averaging 21 inches of new growth per lateral.

Japanese holly (*Ilex crenata convexa*) grew equally well under all fertilization programs. Total lateral growth per plant was approximately 62 inches, with shaded plants having slightly more growth per lateral. All plants averaged just over five inches of new growth per lateral.

Julian barberry produced more breaks and greater average growth per lateral when grown in shade. Total growth per plant was doubled when plants were grown under saran shade cloth providing one-third shade. The fertilization program had little or no effect on growth of these plants.

Data on *Abelia grandiflora* were not recorded, but observations indicated that growth was the same for all treatments, both in fertilization and shading. Results of this phase of the work are shown in table 1.

The results of the second part of the study, involving a 50 per cent soil and 50 per cent styrofoam mix are shown in table 2. Plants receiving the slow-release nitrogen and potassium treatment were as good as, if not slightly better than, plants receiving a complete water-soluble fertilizer every three weeks throughout the growing season. Cherry laurel and Scotch pine in this experiment made an equal amount of growth regardless of treatment, while Japanese yew had a slight but not significantly greater amount of growth per lateral when a complete water-soluble fertilizer was applied every three weeks.

Results of Study

The results of this work indicate that urea-formaldehyde added to the soil mix at planting time and one additional application at mid-season can adequately supply the first year nitrogen requirements of newly canned container nursery stock. It also appears that potassium frit added to the soil mix will maintain a supply of potassium adequate for good growth. Twenty per cent superphosphate was used as a long-lasting source of phosphorus in the container medium.

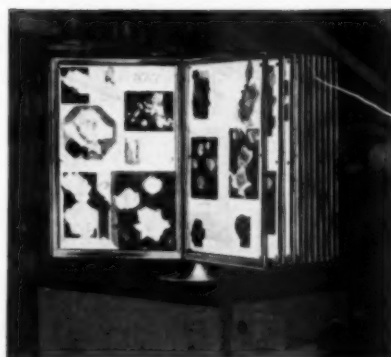
Of the seven species included in the experiment, the plants receiving



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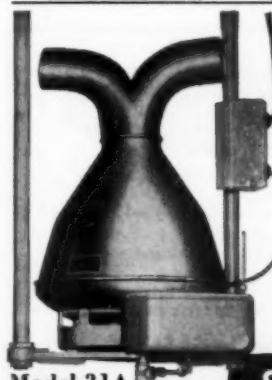
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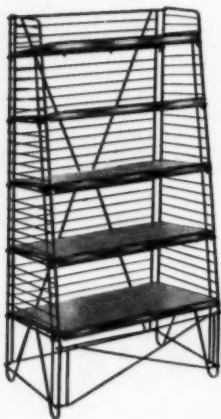
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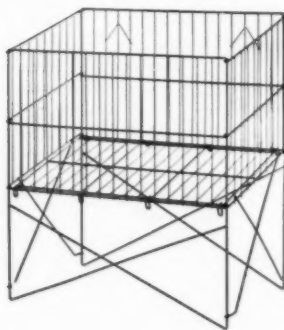
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all of their fertilizer from slow-release forms added to the soil when mixed made as good or slightly better growth than plants fertilized at 3-week intervals throughout the growing season. Terminal growth, total growth and number of laterals were essentially equal under all treatments.

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Results also indicate that with the exception of Berberis julianae, the plants used in these experiments do not require shade during the first growing season in cans.

TRICK'S REMODELS

[Continued from page 10]

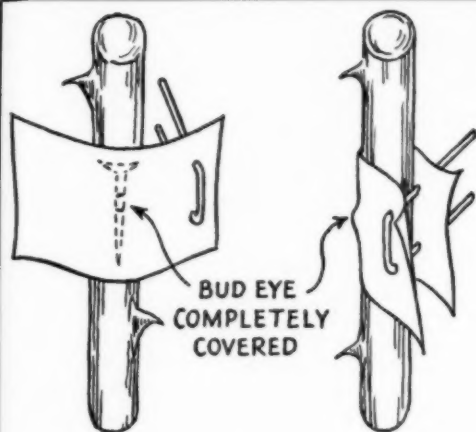
the garden shop from a small wing of the building that fronts on the street. This eventually will house a separate florists' shop. For the time being, however, the area is being rented to a builder and realtor. The rent received covers a good portion of the monthly payment on the loan for remodeling the nursery.

This wing, closest to the street, is being reserved for the florists' shop so that the colorful displays will be close to the passersby and also because this separate unit will at times be open while the rest of the nursery is closed.

The building is on the extreme left side of the lot as cars enter the property. This makes it possible to have perpendicular parking next to the building and also along the property line opposite. The automobiles back out of their spaces and then drive forward into the street.

A drive extending from this parking lot to the rear of the property separates the nursery into two areas. The larger of these, to the left of the drive and behind the garden store, includes an attractive display ground paved with exposed aggregate. Extending from this space to the rear is a large covered area protected partly with plastic and partly with lath. Included at the back of the lath area is a small greenhouse. Potting operations are carried on in the space between the lath area and the alley that borders the nursery property at the rear.

On the other side of the driveway,



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at the back of the parking area, is a small fertilizer building, from which the customer can load bulky materials directly to his car. The building's location also facilitates direct delivery of materials by the supplier. Behind this shed are additional lath areas and bedding plant sections. Beyond the section of specimen plants to the rear is the shipping and receiving area, which borders on the alley.

The driveway through the center of the nursery makes possible direct delivery of supplies to the various sales areas without additional handling. All traffic areas of the nursery are covered with blacktop. Carts will be used to transport plant materials for the customers.

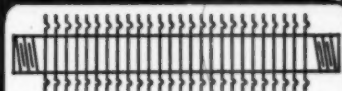
An underlying consideration in planning the new nursery was provision for what the future might hold in this rapidly changing region. Recently, nearby Camp Cook was re-

activated to serve as a missile training center. This is expected to accelerate the already rapid growth of Santa Maria. A shopping center is being planned adjacent to the nursery, and a subdivision is under construction nearby. Thus, the property values are expected to continue to climb at the nursery site.

The structure was therefore planned as a "convertible" building that might lend itself to other types of businesses. One could easily picture the existing buildings being used as part of a motel or shopping center if it becomes economically unfeasible to maintain a nursery at this location.

On the other hand, it may prove advantageous for Mr. Trick to retain this location as a distribution or selling area, with growing grounds established elsewhere. Because of the distance from the nearest supply center, Los Angeles, Mr. Trick feels

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it is now necessary to reserve some space for growing.

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Production and Marketing Of Dwarfed Fruit Trees

Reported by Kenneth Bradley

A talk on "Dwarf Fruit Trees," given by Arthur Bobb, extension specialist, University of Connecticut, Storrs, was an interesting feature at the Connecticut nurserymen's short course, held at the university earlier this year.

It was stated that the fruits best dwarfed are apples. Pears can be dwarfed readily also, but the stone fruits, such as peaches, apricots and cherries, in general are questionable.

In discussing methods of dwarfing fruit trees, Mr. Bobb mentioned genetics dwarfing (meaning that one variety will vary in size at maturity as compared to another), diseases (such as hidden viruses and desirable forms of witches'-broom), mechanical dwarfing (with such practices as bark inversion, stem knotting and pruning), environmental influences (having to do with the control of such factors as water, fertilizer and light) and the use of a clonal dwarfing rootstock. This last-named method was the one considered best by Mr. Bobb, and he recommended the use of the East Malling rootstocks, developed in England, for apples.

Other Dwarfing Rootstocks

Pear can be dwarfed by using quince as the rootstock, and Angers quince is a popular one. Peach, plum and cherry can be dwarfed on Hansen bush cherry (*Prunus besseyi*) as an understock. Peach can also be dwarfed with some plum understocks, such as the Cape Cod beach plum, and sweet cherry types can be dwarfed to some extent on a sour cherry understock.

The necessity of grafting in an intermediate stem piece with some varieties of pear that are not compatible with the quince dwarfing stock was also discussed. The results of an incompatibility may be a failure of a pear variety scion to unite with the understock or a weak union that has a tendency to break off easily. One commonly used variety of pear that will unite with the quince root is Old Home.

The first year the graft is made, the variety Old Home should be grafted into the dwarfing quince rootstock; the second year a scion of the desired variety should be grafted

into the Old Home intermediate stem piece. The intermediate stem piece method is also used on apple trees, Clark Dwarf being one example.

According to Mr. Bobb, the two broad markets for dwarf fruit trees are the commercial fruit grower and the homeowner group. There has been a renewed interest in recent years on the part of fruit growers in the semidwarf rootstocks for commercial production. For these, the East Malling VII and II are of the most value. However, there are still considerable hesitation and confusion on the part of commercial growers on methods of using dwarf trees. Several problems to work out include possible varietal incompatibilities, variation in soil conditions and anchorage against hurricane winds.

Some advantages to the commercial fruit grower in using semidwarf

trees are that the smaller trees are easier to spray, prune and pick. If the grower gets into the pick-your-own type of marketing, the small tree is especially desirable. Generally the dwarf trees will bear fruit earlier than a variety growing on a standard rootstock. The commercial market is a specialized one and probably is of profitable concern only to the nurseryman who is large enough to specialize in it.

Homeowner Market

For the broad market of the homeowner group, Mr. Bobb recommended no apple tree except the full dwarf, East Malling IX. Since thorough coverage in spraying the fruit tree is of primary importance, the dwarf variety is a necessity for the home garden fancier. Mr. Bobb emphasized his opinion that home growing of fruit trees should be considered strictly as a hobby and that the homeowner should expect it, like any other hobby, to cost money. But the trees can add a landscape value to the home, and they also can be fun to grow. The planting of dwarf fruit trees as single specimens or as group plantings in a hedge or decorative screen was mentioned. They may be pruned or espaliered to force the tree to a par-



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ticular desired shape in a specific location or use. Working with trees in this manner takes an understanding of plant growth and how it can be influenced and offers the opportunity to develop this hobby to a high order, affording a great deal of satisfaction to the hobbyist.

The first cultural pitfall to be mentioned was the proper selection of the dwarf rootstock. Just any dwarf tree will not prove satisfactory for home landscape planting. Retail nurserymen should insist on trees grafted onto East Malling IX rootstock for this purpose. The second area for caution mentioned is in the process of planting the dwarf specimen, as it is necessary to keep the scion always above the ground. If this is not done, the plant may self-root and revert to the original standard size.

Damage by Animals

Mice and rabbits also can cause considerable damage to dwarf trees. For some unknown reason they seem to prefer the bark of dwarfs to that of the standard type; so care must be taken to control them. Full dwarf trees must have some type of artificial support, stakes, a fence or a trellis, depending upon how the trees are used.

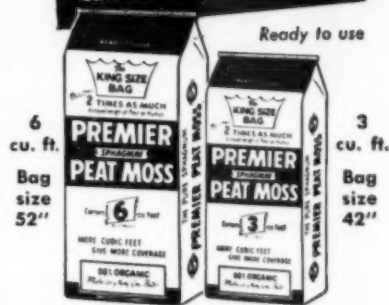
Mr. Bobb suggested that nurserymen who wished to pursue this study of dwarf fruit trees should study the work in the field of home landscape plants by Dr. Karl Sax at the Arnold Arboretum, Jamaica Plain, Mass., and in the field of commercial fruit growing by Karl Brase and others, at the experiment station at Geneva, N. Y.

Mr. Bobb also mentioned that experimental work is being done on this subject in Canada and at the University of Massachusetts, Amherst. Some growers in the nursery business, among them Henry Leuthardt, Port Chester, N. Y., have wide experience with dwarfing rootstocks.

In summarizing his remarks, Mr. Bobb said that apples, pears and stone fruits can be dwarfed, although the last are valued primarily only as a horticultural curiosity rather than from a practical standpoint. Methods of dwarfing include the genetic influence on size, influence of diseases, mechanical methods and vegetative propagation with dwarfing rootstocks. Recommended were the East Malling series for apples and the Angers quince for pears. Cultural points of importance are the correct selection of stock and planting at the proper depth.

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HOLLY SOCIETY MEETING

[Continued from page 7]

restaurant for the biennial dinner meeting. President Wolf acted as toastmaster. Dr. Ordway Starnes, associate director, New Jersey agricultural experiment station, New Brunswick, welcomed the society to New Jersey and discussed the values of agricultural and horticultural research as being carried out by the various research agencies in the United States.

Future plans for the New Jersey station, he mentioned, call for the construction of a plant environment control laboratory, where plants of all types can be grown experimentally under rigidly supervised degrees of light, temperature and humidity. Harry W. Dengler, extension forester, University of Maryland extension service, College Park, Md., moderated a panel of four members on trends in the holly industry relating to insects, fertilizers, orcharding and mail-order selling.

Panel on Industry Trends

Dr. Clyde C. Hamilton, research specialist, Rutgers, discussed problems in controlling holly leaf miners. There are three, and possibly four, species involved. Differences in their life histories and emergence dates complicate keeping these pests in check. In his experiences with systemics added to the soil, the chemicals have not given so good control on holly insects as some workers have indicated.

In concluding his remarks, Dr. Hamilton displayed the holly society's bulletin No. 2, revised, Insect Pests of Holly, dated April 10, 1959, to be distributed to the membership. This 22-page booklet has 16 illustrations and describes the various insects attacking holly in the east. The cover is in color, and controls are given. Copies may be purchased at 50 cents postpaid from the secretary-treasurer, Charles A. Young, Jr., Bergner Mansion, Baltimore 16, Md.

Prof. Wallace A. Mitcheltree, extension specialist in soils, New Jersey agricultural extension service, Rutgers, outlined the problems involved in recommending types and amounts of fertilizers to be used in growing holly. Sufficient information is not available to do this with any degree of certainty, he reported. The best a grower can do is to send soil samples to his state soil testing laboratories where recommendations can be given to bring the soil fertility up to normal levels.

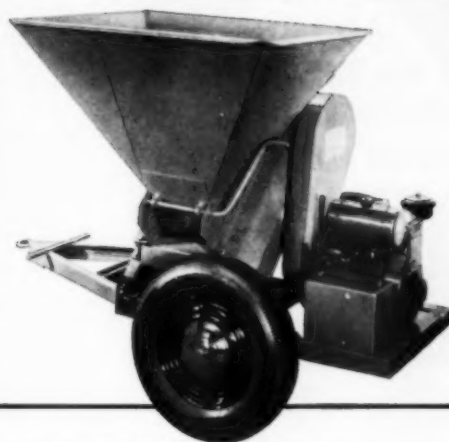
Daniel G. Fenton, holly specialist, New Jersey Silica Sand Co., called attention to the injurious effects of

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the past two winters on both orchard and landscape hollies in the east. A critical review should be made, he said, of those varieties that have not proved satisfactory, and future plantings should be made only with those of established worth.

There are reports, he said, of some eastern growers' being disappointed with the performance of English hollies. This, however, may be the result of inadequate mulching or of small plants' failing to root below the frost line. Winters such as these may be a blessing in disguise, he concluded, for they give a test of hardiness before unadaptable varieties are overplanted.

Edgar H. Diehl, Native American Holly Farms, Manheim, Pa., ended the panel with an explanation of mail-order methods of selling holly. Attractive packaging is helpful in providing new customers by word-of-mouth advertising or for stimulating sales to those wishing something unusual for Christmas gifts, Mr. Diehl said. He used three sample packages of hollies to illustrate his remarks; two were three hollies each of small sizes, and the other was a specimen in a 5-gallon container weighing approximately 60 pounds. All were packaged and labeled for shipping.

The evening was brought to a



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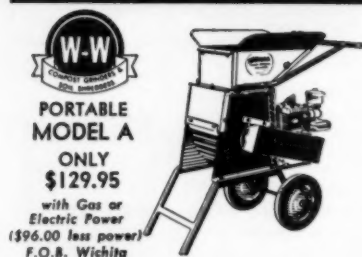
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close with an auction by Dr. Larry Dodge, Sassafras Farm, Cecilton, Md., chairman of the society's research committee. Over \$250 was realized for the research fund from the sale of plants, holly china and glassware, neckties and a copy of the rare book, "Holly, Yew and Box," all donated by the members. A bolt of holly wood five inches in diameter and four feet long sold for \$8.

Opening the Friday morning session, Dr. Wolf recounted briefly the growth of the society since its inception in 1947. Secretary-Treasurer Charles A. Young, Jr., stated that the society had over 1,100 members the first of this year and that \$2,100 was in the research fund.

Dr. Larry Livingston, Cecilton, Md., was selected as chairman of a nominating committee to prepare a slate of officers for the biennial election to be held at the fall meeting. Daniel Fenton, program chairman, stated that this would be held at Easton, Md., early in November, 1959.

The chairman of the disease committee, G. Flippo Gravatt, United States Department of Agriculture plant industry station, Beltsville, Md., reported that his committee consists of seven plant pathologists located in widely separated parts of the country. A holly dieback disease is being studied on Nantucket island in cooperation with the Massachusetts agricultural experiment station. A phytophthora-like disease, similar to that found in the Pacific northwest, is causing some concern in the Ohio river area, Mr. Gravatt related. This is being investigated by Dr. Roger U. Swingle, U. S. D. A., Worthington, O.

Arboretum Chairman Reports

Prof. Robert B. Clark, department of ornamental horticulture, Rutgers, chairman of the society's arboretum committee, gave an account of the society's holly information booth and display at the 1959 International flower show at New York, N. Y. Interest in holly, he said, still continues to run high, and the booth attendants were busy at all times answering numerous questions.

He also announced that the Biltmore estate, Biltmore, N. C., has been added to the list of approved test gardens by the holly society. Anyone wishing to donate plants for use there should communicate directly with Dr. Fred J. Nisbet, Biltmore estate office, Biltmore Station, Asheville, N. C.

Prof. Wallace A. Mitcheltree, chairman of the soils committee, proposed an extension of the survey



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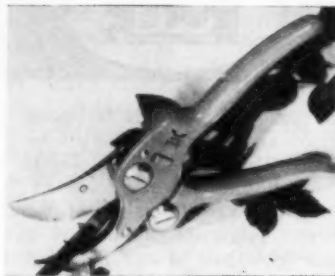
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that was conducted several years ago on the distribution of native holly. It was felt that more detailed information could be acquired by testing the soil in which native holly trees were already growing.

One sample of such soil would be taken for each tree entered in the survey. A printed information sheet to be devised by the soils committee would be filled out completely for each tree. The information needed would include a description of the tree's growth, condition and sheen of leaves and the location of the tree as to state; county; township, and physiological region, such as coastal plain, Piedmont or Appalachian region.

All soil samples would be submitted to the Rutgers soil testing laboratory for pH, magnesium, phosphorus and potassium analyses, Professor Mitcheltree proposed.

The data on the information sheet and the results of the analyses would be coded and submitted to analysis by an automatic computer. No results would be returned to the person submitting the sample and no recommendations would be made to any individual. The results from the computer analysis would be presented to the society in report form.

Propose Special Kit

A specially coded Rutgers soil sample mailing kit would be devised containing (1) the information sheet, (2) detailed instruction sheet on sampling, (3) a plastic bag to hold the sample, (4) a cardboard mailing box, (5) a coded self-addressed envelope for mailing of information sheet and (6) a gummed label and seal properly addressed to Rutgers to be applied to the mailing carton.

The cost of this kit, which would also pay for the analysis, would be borne by the individual submitting the sample. The holly society would order the kits from Rutgers. Each member interested in sampling would pay for his desired number of kits to the society at the rate of \$1 per kit, Professor Mitcheltree concluded.

Dr. Larry Dodge completed the morning business session by reporting on progress of the research committee. Dr. Charles W. Dunham, horticulture department, University of Delaware, Newark, stated that the university's project on the nutritional needs of hollies is well along and that the data obtained can be summarized soon. This study is to be expanded by field testing with plots at the University of Massachusetts, the University of

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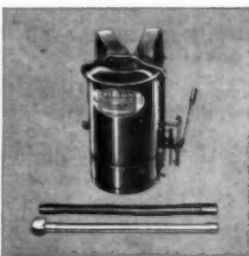


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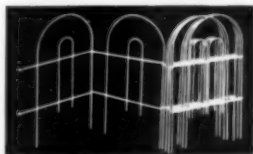
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Georgia, at North Carolina State College and at Oregon State College.

Dr. Lee J. Enright, department of horticulture, University of Maryland, related that his department and the Maryland agricultural experiment station would be able to accept the holly society's proposal of undertaking a holly hardiness or adaptability survey. This would be conducted in connection with the plant zone map developed by Dr. Henry T. Skinner, United States National Arboretum, Washington 25, D. C. The work, he said, could be done without charge except for the necessary postage and printing involved.

The morning session ended with an inspiring talk on holly as a new frontier in New Jersey agriculture by Philip Alampi, secretary, New Jersey department of agriculture, Trenton. The nursery industry of today, Secretary Alampi stated, is entirely new; there are new practices, new markets, new and younger operators, new products and, of course, new problems. Collectively, however, these all account for progress. Holly, as a commercial nursery item, is also new, being relatively unknown and unused prior to World War I.

More Promotion Needed

Thanks to the Holly Society of America and to a few nurserymen, directors of arboretums and amateur horticulturists, hollies are winning wide favor. Thousands of homeowners, however, are still unaware of the value of these plants except for Christmas decorations. Few know of the newer and hardier types; some hollies are relatively slow growing and, generally, are expensive.

Yet the disadvantages are offset by the wealth of folklore, which can be of tremendous value for promotion and exploitation. Holly nurserymen, Secretary Alampi suggested, have a ready-made market and one that would be greatly envied by promoters who had the task of introducing any other type of new product.

The morning program ended with a short description of growing and harvesting the South American holly, used in preparing yerba mate, holly tea, by M. Giaro, Jr., Holly Tea Division, American and Foreign Agencies, 210 Grant avenue, Pompton Lakes, N. J.

After a box luncheon at which yerba mate was served, Prof. Richard Barrett, department of ornamental horticulture, Rutgers, presented an illustrated talk on holly

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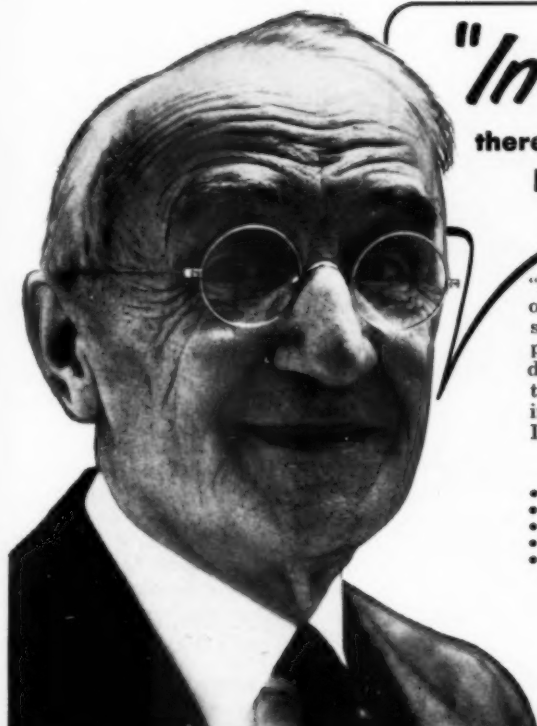
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genetics in layman's terms. Genetics, he said, may be defined as the study of uniformity and variation, of resemblances and differences, between individual plants and the frequency with which the characters constituting these resemblances and differences appear from generation to generation.

Professor Barrett explained the elementary principles of genetics with charts showing the results of crossing smooth-skinned peaches with downy-skinned peaches and carrying this through three generations. Single pairs of genes, he related, may control the inheritances of given plant characteristics, such as skin textures in peaches. One of the genes of the pair may be completely dominant over the other.

At the time of germ-cell formation, there is an orderly distribution of the genes of the parents, such that each germ cell contains only one gene of the parental pair. It would not be possible to determine the number of pairs of genes involved or their relationship to one another unless progenies were carried to the second generation. Since holly breeding work at Rutgers is still involved in first generations, it will be some time before it can unravel the mysteries of what is happening in

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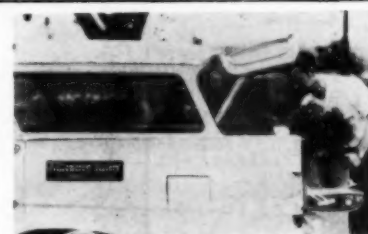
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holly hybridizing, Professor Barrett reported.

Causes of Winter Injury

Dr. William E. Snyder, Rutgers, next discussed the causes of the so-called winter injuries so noticeable among many of the broad-leaved evergreens in the mid-Atlantic area during the past season. These can be classified as resulting from three major causes:

The first, burning, is caused by strong winds or bright winter sun. This effect is common when the ground is deeply frozen, or, perhaps more properly one should say when the soil moisture is frozen. When the water in the ground is frozen it is impossible for the roots to absorb moisture. Strong winds and/or warm winter sun remove the liquids from the leaves and, without replacement of moisture from the roots, the leaf tissue becomes dried out, and the cells die. As soon as the temperature moderates, the leaves are thawed and the injury appears. When these symptoms appear, Dr. Snyder said, it is too late; the damage has been done and nothing can be of help.

Winter burn can be prevented by keeping the leaves from drying out. This is accomplished by mulching to prevent the ground from freezing, by reducing the bright winter sunlight by some method of shading and by reducing the wind around the plants.

Dr. Snyder recalled his interest in determining the effects of shade and mulches on overwintering container-grown hollies while at Cornell University, Ithaca, N. Y., several years ago. Even though temperatures reached 14 degrees below zero the soil in mulched containers did not freeze, and all hollies escaped injury. In contrast, the soil in the unmulched containers was frozen solid, and every holly leaf was burned, he remembered.

Sun Scald

Sun scald, the second type of injury, occurs on exposed surfaces of trunks and branches, particularly those with south and southwest exposure of thin-barked plants. This is especially injurious to trunks and branches which have been newly exposed as the result of heavy pruning.

During the winter, Dr. Snyder continued, the warmest part of the day usually occurs in midafternoon when the sun is in the southwest. The rays hit the trunk and sufficient heat is absorbed to stimulate cambium activity. When the sun sets, the temperature drops rapidly, death of the cambial cells results

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and large areas of dead bark development. Injury from sun scald may result in an almost complete girdling of the tree trunk.

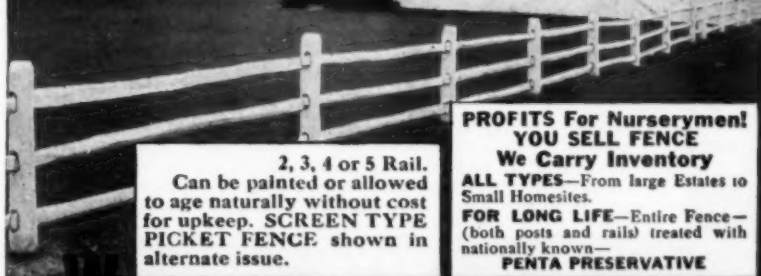
Freezing, the third type of winter injury, occurs when ice crystals form either inside or outside the cells. As the ice crystals form, water is withdrawn from the living material in the cell. Excessive water loss, or dessication, brings about irreversible changes in the protoplasm, causing cell death. Ice crystals within the protoplasm may also cause some mechanical injury.

In closing, Dr. Snyder reminded the audience that the healthier plants are grown, the better able they are to withstand the conditions to which humans subject them. Evergreen hollies in New Jersey should be hardened off in the fall, allowed to go into dormancy and then mulched.

The 2-day session ended with an unusual talk on the romance of the holly industry by Dr. Larry Livingston, holly orchardist, Sassafras Farm, Cecilton, Md. Romance, he said, means different things to different people. It can be found in achievement, in adventuring into the unknown, in contributing to the well-being of others and in creating beauty.

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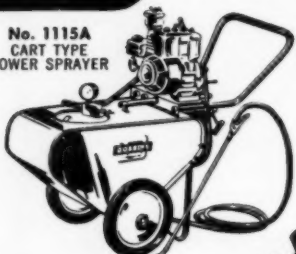
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CALIFORNIA SHOW

[Continued from page 14]

Oakland garden show featured new roses of the parent firm in an exhibit entered by the Jackson & Perkins Co. of California. In the background, climbing roses grew over a white trellis, and in formal beds were many of the new hybrids, including Sterling Silver, Tawny Gold, Summer Snow, White Bouquet, Ivory Fashion, Spartan, Kordes' Perfecta, Goldilocks, Fusilier and Fashionette.

The Orchard Nursery, Lafayette, displayed African violets on a mossy bank, allowing a better view of this specialty.

Outdoor Exhibits

McDonnell Nursery, Oakland, won the top award for a garden design and the Kaiser cup with its entry illustrating California outdoor living. Designed by Ned Rucker, it was one of the most attractive and practical of the more than 20 garden exhibits planned by this firm since the show was started. The entry showed a Japanese influence, with simple lines in the covered patio, the use of shrubs, rocks and ground covering and pools at different levels. Evergreens, pines, maples, blue spruce and bamboo supplied the green, with red azaleas and blue-flowered ground cover giving the color. Modern furniture, sand colored, added to the interest.

Crombie Nursery, San Leandro, exhibited roses that were a mass of color. Included were Montezuma, Isobel Harkness, Spartan and Circus.

With a background of four tall palms, Nelson Nursery, San Lean-

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Green	12 x 10	46%	47%	332	27 ¹ / ₄	27 ¹ / ₄	25 ¹ / ₄
Green	12 x 10	52%	51%	309	29 ¹ / ₄	28 ¹ / ₄	27 ¹ / ₄
Green	14 x 10	67%	57%	272	30 ¹ / ₄	30 ¹ / ₄	28 ¹ / ₄
Green	14 x 12	73%	63%	265	34 ¹ / ₄	33 ¹ / ₄	31 ¹ / ₄
Green	18 x 14	81%	73%	215	41 ¹ / ₄	40 ¹ / ₄	38 ¹ / ₄
Green	20 x 14	90%	76%	207	45 ¹ / ₄	44 ¹ / ₄	42 ¹ / ₄
Green	Lark Stripe	90%	74%	158	43 ¹ / ₄	42 ¹ / ₄	40 ¹ / ₄
Natural	12 x 12	26%	18%	322	31 ¹ / ₄	30 ¹ / ₄	29 ¹ / ₄
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dro, installed an exhibit that won second prize for plant composition. A wooden platform on two levels, a fountain on a still lower level and well arranged plants and flowers were set off with maple trees and a large Strelitzia Nicolai, while yellow pansies and blue-flowering plants completed the border.

Don Coates, Hayward, chose yellow for a color scheme, carrying it out with large beds of yellow pansies, set off with an evergreen background.

The Orchard Nursery showed azaleas in an attractive contemporary setting, with maple and pink dogwood, a fountain at one side and blue iris.

Bill Mueller, Berkeley, and the Nix Nursery, Castro Valley, filled a center space with a large number of beautiful specimens of delphinium and in another exhibit featured pelargoniums.

The California Association of Landscape Architects planned its exhibit around a black and white decorated pavilion, with a border of white and yellow chrysanthemums.

STANLEY PLUM DECLINE

Recent field research on the decline of Stanley plum trees propagated on myrobalan rootstock is described by J. D. Kirkpatrick, K. G. Parker and E. G. Fisher, Cornell University, Ithaca, N. Y., in the Plant Disease Reporter, volume 42, No. 1. Decline of these trees has become a problem in New York orchards, with affected specimens displaying poor vigor and cupped, rolled leaves with a distinctive chlorotic pattern. Some of the affected trees eventually die.

During the field study, covering the 1957 growing season, 190 trees wilted and collapsed, or showed stages of collapse, in a planting of 685 5-year-old Stanley plum trees. The 190 trees were scattered throughout the orchard, and no clear correlation was found relating tree decline and collapse to soil structure, effective soil depth, soil pH or to the readily available soil nutrient level. It was discovered, however, that all affected trees displayed the same progressive pattern of leaf coloration and an overgrowth of the scion—an inverted shoulder—at the graft union.

Leaf Symptoms

Leaves on trees in the first stage of decline exhibit a slight fading between the veinal areas, the latter remaining green. Leaves assume a

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of Pots ago as now . . .

THE BIG NEWS IN BIGGER PROFITS CLOVERSET POTS

MORE than 20 years ago, nurserymen were introduced to a new wrinkle in plant containers—the Cloverset Pot. It was a low-cost container that made cash-and-carry sales more profitable. It stimulated more sales, because it enabled nurserymen to economically pot stock previously sold bare root and to present it for sale in a more attractive form—alive and growing, yet simple to set out. Millions of Cloverset Pots have been made and used in the last 20-odd years and they still tell the same profitable story. If you've never tried them, order a sample set now.

HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS:

- 1 Lasts a full year or more in the sales frame.
- 2 Contains roots safely within the soil ball; permits transplanting any time.
- 3 Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
- 4 Rests on wide bottom; no blowing over in the frames.
- 5 Available in sizes to accommodate stock of any salable size.
- 6 Is neat and uniform in appearance, an asset to the sales area.
- 7 Tough enough to permit easy handling in potting shed and frame.
- 8 Easy for customers to remove—at once, a week later, or even a month after they take stock home.
- 9 Lightweight (but with all these qualities) to save on freight costs.
- 10 . . . and sufficiently low priced so that it may be given away with the plant.

SIZES FOR EVERY NEED

Roses, Perennials, Shrubs and Young Trees

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City	
No. 0	5 1/2 ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	Per 1000
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	\$40.00
No. 2	9 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	50.00
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	55.00
						25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.	
No. 4	13 ins.	12 ins.	...	25			

SEND IN THIS HANDY COUPON FOR A SAMPLE SET OF CLOVERSET POTS



Dept. AN39, 10550 Wornall Rd.
Kansas City 14, Mo.

☐ I enclose \$50; please send me a sample set of Cloverset Pots (limit, one set).

☐ Please send me information on Cloverset Pots and Cloverset Rose and Garden Dust.

NAME

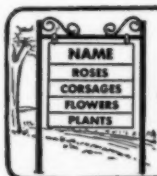
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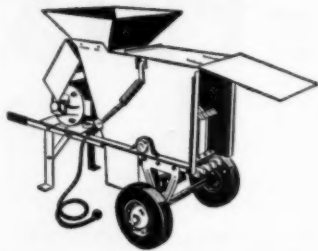
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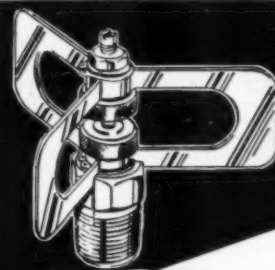
distinctive yellow interveinal coloration tending toward an orange hue in the intermediate stage, while the veinal areas still remain green. In the late stage, the leaves have yellow-orange and brilliant red interveinal coloration while the veinal areas remain green. The veinal areas then fade, and the whole surface is yellow, orange or red. The extreme margins become uniformly necrotic.

Thirteen trees selected for further study were of three groups, those in the intermediate or late stage of decline, those which had wilted and collapsed after July 16 and those which had collapsed prior to that date. On examination of radial and cross sections sawed from these trees at the graft union, it was found that the scion overgrowth and the decline itself was explained by winter injury to the cambium and xylem tissues about the graft area. In all cases the injury occurred during the winter of 1955-56, and the degree or swiftness of decline in the following years was determined by the amount of cambium tissue killed. The symptomatic overgrowth of the scion on trees in the first group was caused by a callus formation over injured scion cambium at the union, resulting in an enlargement of the scion at that point. In the other two groups, the inverted shoulder at the union developed because rootstocks ceased radial growth after severe cambium injury in the winter of 1955-56, while radial growth of the scion continued.

Although the immediate cause of the decline can be thus explained, it is still not known why the tissues just above and below the graft were much more susceptible to winter injury than other areas of the trunk, nor why the affected trees were so much more susceptible than apparently comparable adjacent trees.

PLENTY of business awaits commercial growers of forest tree seedlings in the next decade if planting of reforestation tracts, wasteland and wood lots is done according to the federal government's recommendations. It is stated that 50,000,000 acres should be planted to trees in the next 10 to 15 years in order to replace the land that has been denuded of forests.

BALLARD NURSERY, INC., Tarpon Springs, Fla., recently held a 3-day grand opening, during which the firm, whose owners primarily are landscape designers, offered landscape advice free. A plant-of-the-month is a feature of the nursery.



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for a very fine season. Thanks to our many friends and customers who have favored us with their business.

We are looking forward to serving you again during the coming year.

Our sales representatives will be calling on you again soon to assist you in placing orders.

May we suggest that you reserve your anticipated requirements early to avoid shortages?



THE

LAKES

Shenandoah
NURSERIES

SHENANDOAH, IOWA

How do you score on this quiz?

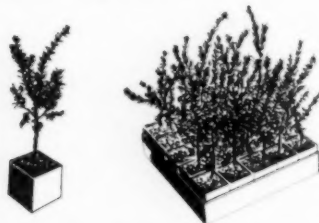


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